Source Water Assessment Report



Public Water Supply: RUSSELL, CITY OF

Assessment Areas Include: 753, 754, 755



Kansas Department of Health and Environment Bureau of Water Watershed Management Section 1000 SW Jackson St., Suite 420 Topeka, KS 66612–1367





Burns &McDonnell 9400 Ward Parkway Kansas City, MO 64114 Kansas Geological Survey University of Kansas 1930 Constant Ave. Lawrence, KS 66047

Reports were generated with the Automated Source Water Assessment Tool (ASWAT). Assessments were completed online using ASWAT by hundreds of state employees, public water supply staff, and technical assistant providers throughout the State of Kansas.

Table Of Contents

Report Description	
Assessment Area 753	<u>1.0</u>
Executive Summary	<u>1.1</u>
Potential Sources	<u>1.2</u>
Added Sources	<u>1.3</u>
Potential Contaminants Summary	<u>1.4</u>
Potential Contaminants Listing	<u>1.5</u>
Protection Measures	<u>1.6</u>
Assessment Analysis	<u>1.7</u>
Site Comments	<u>1.8</u>
Added Site Comments	<u>1.9</u>
Analysis Question Comments	<u>1.10</u>
Assessment Area 754	<u>2.0</u>
Executive Summary	<u>2.1</u>
Potential Sources	<u>2.2</u>
Added Sources	<u>2.3</u>
Potential Contaminants Summary	<u>2.4</u>
Potential Contaminants Listing	<u>2.5</u>
Protection Measures	<u>2.6</u>
Assessment Analysis	<u>2.7</u>
Site Comments	<u>2.8</u>
Added Site Comments	<u>2.9</u>
Analysis Question Comments	<u>2.10</u>
Assessment Area 755	<u>3.0</u>
Executive Summary	<u>3.1</u>
Potential Sources	<u>3.2</u>
Added Sources	3.3
Potential Contaminants Summary	<u>3.4</u>
Potential Contaminants Listing	<u>3.5</u>
<u>Protection Measures</u>	<u>3.6</u>
Assessment Analysis	<u>3.7</u>
Site Comments	<u>3.8</u>
Added Site Comments	<u>3.9</u>
Analysis Question Comments	3.10

Report Description

Detailed Explanation of Entire Report:

The 1996 amendments to the Safe Drinking Water Act require each state to develop a Source Water Assessment Program (SWAP) and a Source Water Assessment (SWA) for each Public Water Supply (PWS) that treats and distributes raw source water. In Kansas there are 761 public water supplies that require SWAs. A SWA includes a delineation of the source water assessment area, an inventory of potential contaminant sources, and a susceptibility analysis.

A PWS can consist of one or more individual assessment areas that require different assessments. In general, an assessment area is delineated at a two-mile fixed radius for a groundwater well. A surface water intake assessment area is the upstream-drainage area (watershed), inside the state border. Additionally, an assessment area can consist of an individual well, group of wells, an individual surface water intake, or multiple surface water intakes.

After each assessment is completed a report is automatically generated using an Internet-based application called the Automated Source Water Assessment Tool (ASWAT). The individual assessment reports combine to form the entire SWA report for a PWS.

A map of each Assessment Area was also generated with ASWAT. However, for security reasons the maps are not included in this report. To obtain a copy of the map(s), please contact your local PWS.

All PWS reports will be available for viewing and downloading on KDHE's Watershed Management Section website(http://www.kdhe.state.ks.us/nps) in 2004.

RUSSELL, CITY OF Summary:

AA	Туре	Diversion Id
753	Ground water multiple wells	002, 003, 004, 005, 006, 007, 008, 009, 010
754	Surface water single intake	999
755	Surface water single intake	998

Assessment Area: 753

Diversion Id's: 002, 003, 004, 005, 006, 007, 008, 009, 010

Status: Accepted

Submit Date: 2003-01-31 08:45:25

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 753

Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	В	B*	С	C*	D
Susceptibility Likelihood Score – SLS	54	49	45	52	42	51
SLS Range	Mid	Low	Low	Mid	Low	Low

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	Moderate Susceptibility
81–100	High Susceptibility

Assessment Area: 753

Diversion Id's: 002, 003, 004, 005, 006, 007, 008, 009, 010

Status: Accepted

Submit Date: 2003-01-31 08:45:25

Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 753

Unregulated Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000177	Meder, Tom	A-SHEL-MA18	С
2002578	Urban, Barry J.	A-SHRH-H001	С

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Identified Contaminated Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Solid Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Waste Water Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Assessment Area: 753

Diversion Id's: 002, 003, 004, 005, 006, 007, 008, 009, 010

Status: Accepted

Submit Date: 2003-01-31 08:45:25

Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **753**

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
	Did Not Add Any Site Sources	S	

Assessment Area: 753

Diversion Id's: 002, 003, 004, 005, 006, 007, 008, 009, 010

Status: Accepted

Submit Date: 2003-01-31 08:45:25

Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 753

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
0	0	0	0	0	0

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Assessment Area: 753

Diversion Id's: 002, 003, 004, 005, 006, 007, 008, 009, 010

Status: Accepted

Submit Date: 2003-01-31 08:45:25

Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **753**

Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
	Did Not	Contain Any Potential Contamina	nts

Assessment Area: 753

Diversion Id's: 002, 003, 004, 005, 006, 007, 008, 009, 010

Status: Accepted

Submit Date: 2003-01-31 08:45:25

Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **753**

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
		No Protection Measu	res Listed	

Assessment Area: 753

Diversion Id's: 002, 003, 004, 005, 006, 007, 008, 009, 010

Status: Accepted

Submit Date: 2003-01-31 08:45:25

Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 753

Ground Water Multiple Wells Analysis

 ${\bf A}$ – Microbiolgical ${\bf B}$ – Inorganic Compounds

B* – Nitrates
 C – Synthetic Organic Compounds
 C* – Pesticides
 D – Volatile Organic Compounds

No.	Question	Response	A	В	B *	C	C *	D
1	Is any well under the influence of surface water?	Yes	1	1	1	1	1	1
2	Do all PWS wells meet KS PWS water well construction standards?	Yes	0	0	0	0	0	0
3	Is any well less than 30 feet deep?	No	0	0	0	0	0	0
4	Is gravel pack within 20 feet of any well surface?	Yes	1	1	1	1	1	1
5	Does a PWS own or control all the areas around the wells?	No	1	1	1	1	1	1
6	Does Zone B consist entirely of native grass?	No	2	2	2	2	2	2
7	Is there a contaminated well in Zone B?	No	0	0	0	0	0	0
8	Is a class V UIC well present?	No	0	0	0	0	0	0
9	Are any commercial, industrial, or urban areas present in Zone B?	No	0	0	0	0	0	0
10	Does each industrial/commercial site and urban area have a water quality protection plan in place?	Yes	0	0	0	0	0	0
11	Are any non-farm home sites present in Zone B?	No	0	0	0	0	0	0
12	Do all the non-farm home sites have a water quality protection plan?	Yes	0	0	0	0	0	0
13	Are any farmsteads present in Zone B?	Yes	1	1	1	1	1	1
14	Do all farmsteads have a water quality protection plan?	No	1	1	1	1	1	1
15	Is there grazing livestock in Zone B?	Yes	1	0	1	0	0	0
16	Have all livestock producers implemented water quality protection measures?	No	1	0	1	0	0	0
17	Is there livestock confinement in Zone B?	Yes	1	1	1	0	1	0

No.	Question	Response	A	В	B *	C	C*	D
18	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
19	Is there corn or grain sorghum production in Zone B?	No	0	0	0	0	0	0
20	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	Yes	0	0	0	0	0	0
21	Are any orchards present in Zone B?	No	0	0	0	0	0	0
22	Are orchard nutrient and pesticide management plans in use for each site?	Yes	0	0	0	0	0	0
23	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	No	0	0	0	0	0	0
24	Is there a railroad or major highway in Zone B or C?	No	0	0	0	0	0	0
25	Is there oil production in Zone B or C?	Yes	0	1	0	1	0	1
26	Do coarse textured soils predominate Zones A, B and C?	Yes	1	1	1	1	1	1
27	Is an irrigation well located in Zone B or C?	No	0	0	0	0	0	0
28	Is a wastewater treatment facility in Zone B or C?	No	0	0	0	0	0	0
29	Is a solid waste landfill in Zone B or C?	No	0	0	0	0	0	0
30	Are there unplugged, abandoned water wells present in Zone C?	Yes	2	1	1	1	1	1
31	Are any commercial, industrial, or urban area present in Zone C?	No	0	0	0	0	0	0
32	Does each industrial/commercial site and urban area have a water quality protection plan in place?	Yes	0	0	0	0	0	0
33	Is there livestock confinement in Zone C?	Yes	1	1	1	1	1	0
34	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
35	Do all the livestock producers have water quality protection measures in place?	No	1	0	1	0	0	0
36	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
37	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
38	Does a perennial stream flow into Zone C?	Yes	1	1	1	1	1	1
39	Are watershed water quality protection plans in place?	No	1	1	1	1	1	1

Assessment Area: 753

Diversion Id's: 002, 003, 004, 005, 006, 007, 008, 009, 010

Status: Accepted

Submit Date: 2003-01-31 08:45:25

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

	Did Not Receive Any Comments
Comments for R	egulated Confined Animal Feeding Operations Site
	Did Not Receive Any Comments
Comments for R	egulated Hazardous Waste Sites
	Did Not Receive Any Comments
	•
Comments for R	egulated Leaking Storage Tank Sites Did Not Receive Any Comments
Comments for R	egulated Leaking Storage Tank Sites
	egulated Leaking Storage Tank Sites
	egulated Leaking Storage Tank Sites Did Not Receive Any Comments
	egulated Leaking Storage Tank Sites Did Not Receive Any Comments egulated Identified Contaminated Sites
Comments for R	egulated Leaking Storage Tank Sites Did Not Receive Any Comments egulated Identified Contaminated Sites

Comments for Regulated Waste Water Sites

Did Not Receive Any Comments

Assessment Area: 753

Diversion Id's: 002, 003, 004, 005, 006, 007, 008, 009, 010

Status: Accepted

Submit Date: 2003-01-31 08:45:25

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 753

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author	
Did Not Receive Any Comments				

Assessment Area: 753

Diversion Id's: 002, 003, 004, 005, 006, 007, 008, 009, 010

Status: Accepted

Submit Date: 2003-01-31 08:45:25

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **753**

Comments for Analysis Questions

Analysis Question	Question Comments	Author
Does a PWS own or control all the areas around the wells?	The PWS leases the ground where the wells are located. An area approx. 25 feet square is fenced off around each well.	Arlyn Unrein
Does Zone B consist entirely of native grass?	There is a small amount of wheat and alfalfa production in Zone B	Arlyn Unrein
Are there unplugged, abandoned water wells present in Zone C?	Locations of abandoned or unplugged wells are unknown, but probably do exist.	Arlyn Unrein
Is each confined livestock facility registered with KDHE?	It is unknown if all livestock producers are registered with KDHE	Arlyn Unrein
Do all the livestock producers have water quality protection measures in place?	unknown	Arlyn Unrein
Are cropland nutrient management plans in place?	Unknown	Arlyn Unrein
Are cropland pesticide management plans in place?	Unknown	Arlyn Unrein

Assessment Area: **754**Diversion Id's: **999**

Status: Accepted

Submit Date: 2003-01-31 08:50:02

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 754

Susceptibility Likelihood Scores for Assessment Area

	A	В	B1	B2	С	C*	D
Susceptibility Likelihood Score – SLS	52	45	55	53	44	53	47
SLS Range	Mid	Low	Mid	Mid	Low	Mid	Low

A – Microbiolgical

B2 – Sedimentation

C* – Pesticides

 $\boldsymbol{B}-Inorganic\ Compounds$

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

B1 – Eutrophication – Phosphorous

Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	Moderate Susceptibility
81–100	High Susceptibility

Assessment Area: **754**Diversion Id's: **999**

Status: Accepted

Submit Date: 2003-01-31 08:50:02

Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**

Source No.	SIC Description	SIC ID	Zone
211950	General Farm, Primarily Crop	191	С
211952	General Farm, Primarily Crop	191	С
211998	General Farm, Primarily Crop	191	С
211999	General Farm, Primarily Crop	191	С
206464	Cattle Farm	211	С
208239	Cattle Farm	211	С
211955	Cattle Farm	211	С
211997	Cattle Farm	211	С
212712	Cattle Farm	211	С
212710	Dairy Farms	241	С
206997	Veterinary Services, Specialties	742	С
207646	Veterinary Services, Specialties	742	С
207647	Veterinary Services, Specialties	742	С
207937	Veterinary Services, Specialties	742	С
207938	Veterinary Services, Specialties	742	С
207939	Veterinary Services, Specialties	742	С
207982	Veterinary Services, Specialties	742	С
210504	Veterinary Services, Specialties	742	С

Source No.	SIC Description	SIC ID	Zone
206465	Animal Specialty Services	752	С
206916	Animal Specialty Services	752	С
206955	Animal Specialty Services	752	С
207684	Animal Specialty Services	752	С
207886	Animal Specialty Services	752	С
210235	Drilling Oil and Gas Wells	1381	С
206469	Oil and Gas Field services	1389	С
206470	Oil and Gas Field services	1389	С
206471	Oil and Gas Field services	1389	С
206472	Oil and Gas Field services	1389	С
206473	Oil and Gas Field services	1389	С
206474	Oil and Gas Field services	1389	С
206475	Oil and Gas Field services	1389	С
206897	Oil and Gas Field services	1389	С
207045	Oil and Gas Field services	1389	С
207142	Oil and Gas Field services	1389	С
207208	Oil and Gas Field services	1389	С
207256	Oil and Gas Field services	1389	С
207379	Oil and Gas Field services	1389	С
207380	Oil and Gas Field services	1389	С
207622	Oil and Gas Field services	1389	С
207639	Oil and Gas Field services	1389	С
207640	Oil and Gas Field services	1389	С

Source No.	SIC Description	SIC ID	Zone
207841	Oil and Gas Field services	1389	С
207845	Oil and Gas Field services	1389	С
207855	Oil and Gas Field services	1389	С
207861	Oil and Gas Field services	1389	С
207874	Oil and Gas Field services	1389	С
207900	Oil and Gas Field services	1389	С
207901	Oil and Gas Field services	1389	С
207910	Oil and Gas Field services	1389	С
207935	Oil and Gas Field services	1389	С
207945	Oil and Gas Field services	1389	С
207961	Oil and Gas Field services	1389	С
207980	Oil and Gas Field services	1389	С
207987	Oil and Gas Field services	1389	С
207988	Oil and Gas Field services	1389	С
208199	Oil and Gas Field services	1389	С
208206	Oil and Gas Field services	1389	С
208296	Oil and Gas Field services	1389	С
210259	Oil and Gas Field services	1389	С
210268	Oil and Gas Field services	1389	С
210274	Oil and Gas Field services	1389	С
210294	Oil and Gas Field services	1389	С
210524	Oil and Gas Field services	1389	С
211905	Oil and Gas Field services	1389	С

Source No.	SIC Description	SIC ID	Zone
206600	Single–family Housing Construction	1521	С
206621	Single–family Housing Construction	1521	С
206627	Single–family Housing Construction	1521	С
206645	Single–family Housing Construction	1521	С
206734	Single–family Housing Construction	1521	С
206881	Single-family Housing Construction	1521	С
207076	Single–family Housing Construction	1521	С
207115	Single–family Housing Construction	1521	С
207140	Single–family Housing Construction	1521	С
207162	Single–family Housing Construction	1521	С
207207	Single–family Housing Construction	1521	С
207232	Single–family Housing Construction	1521	С
207302	Single–family Housing Construction	1521	С
207367	Single–family Housing Construction	1521	С
207431	Single-family Housing Construction	1521	С
207505	Single–family Housing Construction	1521	С
207671	Single–family Housing Construction	1521	С
207677	Single–family Housing Construction	1521	С
207877	Single–family Housing Construction	1521	С
207902	Single-family Housing Construction	1521	С
207903	Single–family Housing Construction	1521	С
207918	Single–family Housing Construction	1521	С
207963	Single–family Housing Construction	1521	С

Source No.	SIC Description	SIC ID	Zone
208182	Single–family Housing Construction	1521	С
208197	Single–family Housing Construction	1521	С
208231	Single–family Housing Construction	1521	С
210236	Single–family Housing Construction	1521	С
210257	Single–family Housing Construction	1521	С
210261	Single–family Housing Construction	1521	С
210275	Single–family Housing Construction	1521	С
210292	Single–family Housing Construction	1521	С
210322	Single–family Housing Construction	1521	С
210542	Single–family Housing Construction	1521	С
212792	Single–family Housing Construction	1521	С
207206	Nonresidential Construction	1542	С
207583	Nonresidential Construction	1542	С
207678	Nonresidential Construction	1542	С
210463	Nonresidential Construction	1542	С
206476	Highway and Street Construction	1611	С
206477	Highway and Street Construction	1611	С
207289	Highway and Street Construction	1611	С
207371	Highway and Street Construction	1611	С
210300	Meat Packing Plant Manufacturing	2011	С
207668	Prepared Feeds For Animals and Fowls	2048	С
210297	Bottled and Canned Soft Drinks Production	2086	С

Source No.	SIC Description	SIC ID	Zone
207537	Wood Kitchen Cabinets Manufacturing	2434	С
206485	Structural Wood members Manufacturing	2439	С
206486	Prefabricated Wood Buildings Manufacturing	2452	С
207736	Newspapers Publishing and Printing	2711	С
208171	Newspapers Publishing and Printing	2711	С
210403	Newspapers Publishing and Printing	2711	С
207731	Commercial Printing-Lithographic	2752	С
207164	Commercial Printing NEC	2759	С
207782	Commercial Printing NEC	2759	С
207792	Commercial Printing NEC	2759	С
207793	Commercial Printing NEC	2759	С
210384	Commercial Printing NEC	2759	С
212695	Nitrogen Fertilizer Manufacturing	2873	С
207983	Petroleum Refining	2911	С
206850	Sheet Metal Work Manufacturing	3444	С
210271	Farm Machinery and Equipment	3523	С
210324	Farm Machinery and Equipment	3523	С
211909	Farm Machinery and Equipment	3523	С
212778	Farm Machinery and Equipment	3523	С
207107	Special Industries Machinery Manufacturing	3559	С
210325	Special Industries Machinery Manufacturing	3559	С

Source No.	SIC Description	SIC ID	Zone
206489	Machinery, Except Electrical Manufacturing	3599	С
207921	Machinery, Except Electrical Manufacturing	3599	С
210326	Machinery, Except Electrical Manufacturing	3599	С
210327	Machinery, Except Electrical Manufacturing	3599	С
207883	Storage Batteries Manufacturing	3691	С
207634	Aircraft Equipment Manufacturing	3728	С
207974	Aircraft Equipment Manufacturing	3728	С
210471	Travel trailers and Campers Manufacturing	3792	С
208205	Surgical Appliances and Supplies Manufacturing	3842	С
206602	Signs and Advertising Display Manufacturing	3993	С
206672	Signs and Advertising Display Manufacturing	3993	С
206858	Signs and Advertising Display Manufacturing	3993	С
207936	Signs and Advertising Display Manufacturing	3993	С

Source No.	SIC Description	SIC ID	Zone
210281	Signs and Advertising Display Manufacturing	3993	С
206907	Manufacturing Industries, nec	3999	С
207263	Manufacturing Industries, nec	3999	С
206491	Local Trucking, without Storage	4212	С
206492	Local Trucking, without Storage	4212	С
210303	Local Trucking, without Storage	4212	С
210304	Local Trucking, without Storage	4212	С
212696	Local Trucking, without Storage	4212	С
205406	Farm Product Warehousing and Storage	4221	С
205407	Farm Product Warehousing and Storage	4221	С
207975	Farm Product Warehousing and Storage	4221	С
208145	Farm Product Warehousing and Storage	4221	С
208146	Farm Product Warehousing and Storage	4221	С
208147	Farm Product Warehousing and Storage	4221	С
208161	Farm Product Warehousing and Storage	4221	С
208300	Farm Product Warehousing and Storage	4221	С
209120	Farm Product Warehousing and Storage	4221	С
209121	Farm Product Warehousing and Storage	4221	С
209126	Farm Product Warehousing and Storage	4221	С
210238	Farm Product Warehousing and Storage	4221	С
210317	Farm Product Warehousing and Storage	4221	С
210501	Farm Product Warehousing and Storage	4221	С

Source No.	SIC Description	SIC ID	Zone
211911	Farm Product Warehousing and Storage	4221	С
212709	Farm Product Warehousing and Storage	4221	С
206498	Combination Utility Services, nec	4939	С
207046	Refuse Systems	4953	С
207047	Refuse Systems	4953	С
207885	Refuse Systems	4953	С
207959	Refuse Systems	4953	С
207917	Recreational vehicle sales and repair	5012	С
205423	Farm and Garden Machinery	5083	С
207298	Farm and Garden Machinery	5083	С
207857	Farm and Garden Machinery	5083	С
207913	Farm and Garden Machinery	5083	С
207919	Farm and Garden Machinery	5083	С
207923	Farm and Garden Machinery	5083	С
207934	Farm and Garden Machinery	5083	С
210330	Farm and Garden Machinery	5083	С
210388	Farm and Garden Machinery	5083	С
211912	Farm and Garden Machinery	5083	С
212697	Farm and Garden Machinery	5083	С
212713	Farm and Garden Machinery	5083	С
207972	Scrap and Waste Materials	5093	С
212711	Scrap and Waste Materials	5093	С
205408	Gasoline Service Station	5541	С

Source No.	SIC Description	SIC ID	Zone
206456	Gasoline Service Station	5541	С
206510	Gasoline Service Station	5541	С
206748	Gasoline Service Station	5541	С
206790	Gasoline Service Station	5541	С
206794	Gasoline Service Station	5541	С
206816	Gasoline Service Station	5541	С
207279	Gasoline Service Station	5541	С
207483	Gasoline Service Station	5541	С
207686	Gasoline Service Station	5541	С
207732	Gasoline Service Station	5541	С
207941	Gasoline Service Station	5541	С
208210	Gasoline Service Station	5541	С
210335	Gasoline Service Station	5541	С
210520	Gasoline Service Station	5541	С
212698	Gasoline Service Station	5541	С
207951	Recreational vehicle sales and repair	5561	С
207952	Recreational vehicle sales and repair	5561	С
206524	Mobile Home Park	6515	С
206525	Mobile Home Park	6515	С
207288	Mobile Home Park	6515	С
207503	Mobile Home Park	6515	С
207633	Mobile Home Park	6515	С
207904	Mobile Home Park	6515	С

Source No.	SIC Description	SIC ID	Zone
210319	Recreational Vehicle Parks and Campsites	7033	С
212775	Recreational Vehicle Parks and Campsites	7033	С
207157	Photofinishing Laboratory	7384	С
206687	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
206729	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
207332	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
207569	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
207590	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
207629	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
207643	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
207673	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
207842	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С

Source No.	SIC Description	SIC ID	Zone
207908	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
207911	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
207929	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
208209	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
210262	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
210483	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
210498	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
211932	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
212774	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
206562	Auto Truck Repair Service	7538	С
206709	Auto Truck Repair Service	7538	С
206710	Auto Truck Repair Service	7538	С
206730	Auto Truck Repair Service	7538	С
206825	Auto Truck Repair Service	7538	С

Source No.	SIC Description	SIC ID	Zone
206975	Auto Truck Repair Service	7538	С
207096	Auto Truck Repair Service	7538	С
207253	Auto Truck Repair Service	7538	С
207262	Auto Truck Repair Service	7538	С
207337	Auto Truck Repair Service	7538	С
207352	Auto Truck Repair Service	7538	С
207429	Auto Truck Repair Service	7538	С
207562	Auto Truck Repair Service	7538	С
207591	Auto Truck Repair Service	7538	С
207611	Auto Truck Repair Service	7538	С
207648	Auto Truck Repair Service	7538	С
207916	Auto Truck Repair Service	7538	С
208154	Auto Truck Repair Service	7538	С
208244	Auto Truck Repair Service	7538	С
210256	Auto Truck Repair Service	7538	С
210263	Auto Truck Repair Service	7538	С
210488	Auto Truck Repair Service	7538	С
210492	Auto Truck Repair Service	7538	С
210510	Auto Truck Repair Service	7538	С
211933	Auto Truck Repair Service	7538	С
211996	Auto Truck Repair Service	7538	С
206844	Car Wash	7542	С
206847	Car Wash	7542	С

Source No.	SIC Description	SIC ID	Zone
207333	Car Wash	7542	С
207747	Car Wash	7542	С
206594	Repair Services, Nec	7699	С
206835	Repair Services, Nec	7699	С
206909	Repair Services, Nec	7699	С
207058	Repair Services, Nec	7699	С
207063	Repair Services, Nec	7699	С
207067	Repair Services, Nec	7699	С
207189	Repair Services, Nec	7699	С
207620	Repair Services, Nec	7699	С
207636	Repair Services, Nec	7699	С
207674	Repair Services, Nec	7699	С
207978	Repair Services, Nec	7699	С
209127	Repair Services, Nec	7699	С
210306	Repair Services, Nec	7699	С
210499	Repair Services, Nec	7699	С
210525	Racing, Including Track Operation	7948	С
207879	Golf Course	7992	С
207880	Golf Course	7992	С
208202	Golf Course	7992	С
210342	Golf Course	7992	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000647	Zimmerman, Keith	A-SHEL-BA02	В

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000753	Urban Barry	A-SHRH-B008	В
2001261	North Farms	A-SHRH-BA02	В
2001853	Irvin, John H.	A-SHNS-BA02	В
2002387	Grabbe Farms Feedlot	A-SHEL-B005	В
2002860	Cedar Bluff Cattle Feeders	A-SHTR-C001	В
2000169	Jamison, Darin D.	A-SHGO-MA07	С
2000177	Meder, Tom	A-SHEL-MA18	С
2000194	Walter Dairy	A-SHEL-MA05	С
2000248	Dorzweiler, F Marion	A-SHEL-MA15	С
2000312	Schwarzenberger, Frank	A-SHGO-MA04	С
2000335	Wolf, Laban	A-SHGO-M001	С
2000349	Huser, Leon	A-SHEL-M004	С
2000368	King, Milton	A-SHEL-MA06	С
2000397	Gross, Wilbert	A-SHEL-MA16	С
2000437	Spring Creek Farms	A-SHTR-S006	С
2000477	Kuppetz Dairy	A-SHTR-MA03	С
2000491	Dorzweiler Dairy	A-SHEL-MA19	С
2000608	Barnes, Gerald	A-SHNS-BA01	С
2000706	Augustine Dairy	A-SHTR-MA04	С
2000712	Easton, Charles	A-SHGO-MA05	С
2000796	Schaus Dairy	A-SHTR-MA06	С
2000928	Thielenhaus Brothers	A-SHRH-B007	С
2000998	Wolf Dairy	A-SHGO-M004	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2001004	Flora Farms, Inc.	A-SHGO-MA03	С
2001053	Kinderknecht, Tom	A-SHGO-S009	С
2001126	Fabrizius, Paul M.	A-SHTR-S004	С
2001226	Binder And Son Dairy	A-SHEL-M005	С
2001237	Gillespie Trust, Delmar J.	A-SHGO-S010	С
2001268	Pfannenstiel, A. J. – Site #1	A-SHEL-BA03	С
2001271	Pfannenstiel, A. J. – Site #2	A-SHEL-BA04	С
2001277	Corner Clinic	A-SHRH-BA01	С
2001499	Jamison Herefords	A-SHGO-BA08	С
2001694	Windholz Bro's	A-SHTR-S002	С
2001720	Northglen Farms	A-SHEL-B004	С
2001753	Werth, Leland	A-SHTR-B003	С
2001754	Heier, David	A-SHGO-BA03	С
2001823	Fort Hays State University Farm	A-SHEL-M001	С
2001835	Ostmeyer Hog Farm	A-SHGO-S005	С
2001846	Bemis, Taylor G.	A-SHEL-B006	С
2001917	North Farms	A-SHEL-BA01	С
2001928	Tuttle Farms	A-SHGO-B010	С
2002071	Kinderknecht, Tom	A–SHGO–BA12	С
2002161	Wolf Dairy LLC	A-SHGO-B001	С
2002210	Reinecker Feedlot #2	A-SHGO-B020	С
2002231	Riedel, Don D.	A-SHTR-B001	С
2002296	Reinecker Feedlot	A-SHGO-B008	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2002436	Bar M Farms	A-SHGO-B018	С
2002441	Mann Cattle Company, Inc.	A-SHGO-B016	С
2002442	Grinnell Grain Company	A-SHGO-B002	С
2002447	Quinkan Land Cattle	A-SHGO-B021	С
2002504	Ksu Agricultural Research Ctr.	A-SHEL-B001	С
2002526	Triple J Ranch	A-SHGO-LA01	С
2002569	Wakeeney Livestock Commission	A-SATR-BD01	С
2002575	Helendale Ranch	A-SHGO-C011	С
2002848	Mike's Game Birds	A-SHEL-EA01	С
2002907	Hays Feeders, Llc	A-SHEL-C002	С

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000145	Johnnie's Service Repair	01733	В
3000267	Charlies Service	03228	В
3002543	Dinges, Tom	80314	В

Source No.	Source Name	ID/Permit No.	Zone
3002810	Art Station, The (former)	81589	В
3000001	Schmidt General	00002	С
3000146	Home Oil Supply	01737	С
3000202	Eberle Oil Co	02329	С
3000203	Quality Mart Inc.	02332	С
3000204	Grahams 66	02374	С
3000227	Trapp Service	02752	С
3000229	Schreiners Inc, Ogallah	02757	С
3000253	Midland Marketing	03076	С
3000285	Frontier Quick Mart	03487	С
3000344	Allied Inc	04204	С
3000350	Trego Co Shop, Wakeeney	04254	С
3000398	A A Coors	04941	С
3000415	Werth Tank Service	05077	С
3000431	Sprint Mart/apco	05250	С
3000440	Golden Belt Coop	05383	С
3000486	Usd 388, Bus Barn	05960	С
3000495	Usd 432, Victoria	06002	С
3000514	Hays Medical Center, Hadley Campus	06173	С
3000531	Hays Medical Center, St Anthony	06258	С
3000548	Dons 66	06341	С
3000600	Mr Quick Mini Mart	06528	С
3000601	Frontier Quick Mart	06529	С

Source No.	Source Name	ID/Permit No.	Zone
3000606	Allied Asphalt Inc	06548	С
3000644	Love's #44	06728	С
3000675	Coastal Mart #2501	06843	С
3000676	Coastal Mart #2502	06844	С
3000677	Coastal Mart #2504	06845	С
3000678	Coastal Mart #2506	06848	С
3000709	Stop 2 Shop	07025	С
3000710	Asb Oil Inc	07026	С
3000823	Victoria, City Of,	08582	С
3000847	Hays Fire Dept	08777	С
3000848	Hays, Parks Dept	08778	С
3000849	Hays, Service Dept	08779	С
3000850	Hays Airport	08780	С
3000885	Travel Shoppe #1	09016	С
3000950	Art's Apco	11481	С
3000974	Brown's Service Center	12215	С
3000993	Holiday 66 Food Plaza #2	12847	С
3001002	Cooper Oil	13025	С
3001017	Haliburton	13507	С
3001023	Kansas Mobile Glass	13868	С
3001025	Honas Water Service	13920	С
3001040	Fondable Motor Co	14399	С
3001090	James Lincoln Mercury Gmc	15968	С

Source No.	Source Name	ID/Permit No.	Zone
3001091	James Motor C0	15972	С
3001093	Golden Ox Truck Stop	16028	С
3001122	Leroy's Diamond Shamrock	17115	С
3001124	Kerr-mcgee #6295 ("al's")	17141	С
3001140	Karst Well Drilling	17679	С
3001143	Robben Oil	17857	С
3001144	Mikes Service	17888	С
3001200	Speedy Lube Oil	20216	С
3001203	Standish Ford, Inc.	20268	С
3001241	Weber's Service	22650	С
3001255	Younger Oil Co	23054	С
3001354	Yuasa-exide	24084	С
3001356	Ellis Co Hwy Dept	24089	С
3001364	Fort Hays St Univ, Motor Pool	24183	С
3001391	Apco #641, Vine St	25028	С
3001420	Wakeeney Travel Plaza	25221	С
3001423	Amoco #9533	25226	С
3001427	Amoco #9667	25232	С
3001490	J C Penney	25574	С
3001537	Mr Quick #2	25793	С
3001590	Air Midwest, Hays	26061	С
3001594	Ideal Trucking	26072	С
3001603	Gilmore Construction	26114	С

Source No.	Source Name	ID/Permit No.	Zone
3001604	Johnson Co, Executive Airport	26115	С
3001654	Riggs Tire Auto	26310	С
3001680	Kmart #9067	26436	С
3001701	Texaco #54-107-026	26587	С
3001750	Kdot, Hays	26687	С
3001774	Hembree Well Service	26837	С
3001808	Army Reserve Center	27022	С
3001819	Ups, Hays	27053	С
3001822	Stuckeys Dq #192	27069	С
3001835	Tmp-marian High School, Hays, 1701 Hall	27111	С
3001864	Fort Hays Exp. Station	27256	С
3001914	Kang	27458	С
3002015	Hays Fire Equipment	28100	С
3002098	Us Supply	28561	С
3002124	Halliburton Serv	28713	С
3002169	Schlitter Service	28929	С
3002258	Apc0, Main St	29361	С
3002271	Wal-mart, Hays	29420	С
3002323	Jack's Repair	29665	С
3002334	Ted's Tavern	29715	С
3002340	Kingsley, Roger	29724	С
3002343	Thrift Distributors	29733	С
3002401	Ellis Power Plant	40159	С

Source No.	Source Name	ID/Permit No.	Zone
3002405	Midland Marketing Coop	40217	С
3002417	Janzen Oil – East Bulk	41536	С
3002426	Davis Mud	42358	С
3002432	Wes-kan Construction	42620	С
3002453	Weigel Oil Co	43151	С
3002580	Fdic Club	80419	С
3002581	Mardian Motor Co	80420	С
3002625	Hutchison Vending Co	80813	С
3002645	Hays Asphalt Construction Inc.	81166	С
3002649	Midway Cable Tv Co.	81178	С
3002665	Golden Plains Trucking	81218	С
3002677	Rome, Ron Property	81261	С
3002745	Quality Cleaners	81409	С
3002748	Roth Electronics	81416	С
3002761	Wolf Memorial Co	81437	С
3002767	Fischer Pipe Testing	81446	С
3002770	Thompson Oil Co	81464	С
3002776	M D Inc	81479	С
3002786	Standard Station, Old	81501	С
3002789	Ellis Co Emergency Management	81507	С
3002799	Circle S Trailer Sales Inc	81553	С
3002805	Sun Cement, Former	81583	С
3002852	Stewart Well Service	81700	С

Source No.	Source Name	ID/Permit No.	Zone
3002876	Dowell Site, Former	81780	С
3002880	State Bank Of Downs, Downs	99999	С

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000012	KAW PIPELINE – DAMAR DREILING	C602671203	С
7000014	KAW PIPELINE – HOGBACK	C602671205	С
7000884	DREILING, CECILIA	C602600011	С
7000885	CROSS MANUFACTURING CO., INC.	C602600014	С
7000886	ELLIS COUNTY FEEDERS	C602600019	С
7000887	NORGE'S DRYCLEANERS	C602600034	С
7000888	PERMIAN OIL	C602600037	С
7000890	SCHAEFER, CLARENCE	C602600106	С
7000892	WEST 8TH STREET (HAYS WELLS – 20,27,28)	C602603011	С
7000893	WEST 8TH STREET (HAYS WELLS – 20,27,28)	C602603011	С
7000894	WEST 8TH STREET (HAYS WELLS – 20,27,28)	C602603011	С
7000895	ELLIS COUNTY LANDFILL	C602603012	С
7000896	MIDWEST ENERGY, INC.	C602603013	С
7000897	DOWELL-SCHLUMBERGER FACILITY (FORMER)	C602603014	С
7000898	WALKER AAF	C602603019	С
7000899	GOLDEN BELT COOPERATIVE ASSN SITE	C602603057	С

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000900	CLARK'S WELL SITE	C602670625	С
7000901	AUTO HOUSE BODY SHOP DISPOSAL SITE	C602671101	С
7000902	QUINTER COOP FIRE	C603200071	С
7000903	PARK PWS WELL #1	C603270142	С
7000943	DEGGS, BRAUN-CAROLL WYNN	C609800009	С
7000944	KOCH PIPE LINE CO., AL DREILING	C609800171	С

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000051	Trego County	0105-S	С
5000067	Ellis County	0113-S	С
5000072	Gove County	0115-S	С
5000472	Ft. Hays State University	0455-S	С
5000548	City of Hays	0534-S	С
5000549	Allied, Inc.	0535-S	С
5000725	Ellis County HHW Waste Program	0704-S	С
5000769	City of Hays	0747–S	С

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000270	MC CRACKEN MWTP	M-SH26-OO01	В

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6001739	LIEBENTHAL MWTP	M-SH20-NO01	В
6001746	MC CRACKEN	M-SH26-OO02	В
6000049	MEADOW ACRES MOBILE HOME PARK	C-SH16-OO02	С
6000291	KDHE–SOUTH HAYS GROUNDWATER REMED.	I–SH16–PO06	С
6000888	ROME CORPORATION / WESTERN WELL SERVICE	I-SH16-NP03	С
6000889	ELLIS CO. HIGHWAY DEPT.	I-SH16-NP04	С
6000890	J.C. PENNEY COMPANY-HAYS	I–SH16–PO08	С
6000891	KDHE/BER (DRY CLEANING TRUST FUND) HAYS	I–SH16–PO10	С
6001085	OXFORD	M-AR68-NO01	С
6001702	ELLIS MWTP	M-SH06-OO01	С
6001703	ELLIS MWTP	M-SH06-OO01	С
6001704	ELLIS WWTF	M-SH06-OO02	С
6001705	ELLIS WWTF	M-SH06-OO02	С
6001709	GORHAM MWTP	M-SH10-NO01	С
6001713	USD #292 GRAINFIELD-WHEATLAND SCHOOL	M-SH12-NO02	С
6001714	KDOT. GOVE CO. REST AREA I–70	M-SH12-NR02	С
6001715	KDOT. GOVE CO. REST AREA I–70	M-SH12-NR02	С
6001716	GRINNELL MWTP	M-SH14-NO01	С
6001723	HAYS WWTF	M-SH16-OO02	С
6001724	HAYS WWTF	M-SH16-OO02	С
6001725	HAYS WWTF	M-SH16-OO02	С
6001726	HAYS WWTF	M-SH16-OO02	С
6001727	HAYS WWTF	M-SH16-OO02	С

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6001728	HAYS WWTF	M-SH16-OO02	С
6001729	HAYS WWTF	M-SH16-OO02	С
6001730	HAYS WWTF	M-SH16-OO02	С
6001731	HAYS WWTF	M-SH16-OO02	С
6001732	HAYS WWTF	M-SH16-OO02	С
6001759	VICTORIA MWTP	M-SH37-OO01	С
6001760	KDOT. TREGO CO. REST AREA	M-SH38-NR02	С
6001761	KDOT. TREGO CO. REST AREA	M-SH38-NR02	С
6001762	WAKEENEY MWTP	M-SH38-OO01	С
6001763	WAKEENEY MWTP	M-SH38-OO01	С
6001774	MUNJOR IMPROVEMENT DISTRICT	M-SH50-NO01	С
6002027	ENERSYS, INC.	P-SH16-OO01	С
6002028	A-1 PLANK SCAFFOLD MFG. INC.	P-SH16-OO02	С

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**Diversion Id's: **999**

Status: **Accepted**

Submit Date: 2003-01-31 08:50:02

Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**

Source No.	Source Name	SIC ID	Zone
9000537	CRP	0	В
9000637	chemical Storage company	0	В
9000538	Irrigation equipment, pump site, and well	10012	В
9000539	Fuel, grain and feed and hay storage	10026	В
9000583	Fuel, grain and feed and hay storage	10026	В
9000586	Fuel, grain and feed and hay storage	10026	В
9000645	above and below ground storage tanks	10026	В
9000657	Fuel, grain and feed and hay storage	10026	В
9000957	Fuel, grain, and feed and hay storage	10026	В
9001079	Fuel, grain, and feed and hay storage	10026	В
9001210	Fuel, grain and feed and hay storage	10026	В
9001247	Fuel, grain and feed and hay storage	10026	В
9001587	Fuel, grain and feed and hay storage	10026	В
9000589	on-site wastewater facility	10067	В
9000642	on-site wastewater facility	10067	В
9000658	on-site wastewater facility	10067	В
9000664	on-site wastewater facility	10067	В
9000650	football field	10073	В
9001640	non-discharging lagoons	10075	В
9000641	sand pit	10079	В

Source No.	Source Name	SIC ID	Zone
9000534	pastureland with cattle	10080	В
9000582	pastureland with cattle	10080	В
9000644	pastureland with stock cattle	10080	В
9000652	pastureland with stock cattle and CRP	10080	В
9000659	pastureland with stock cattle	10080	В
9000663	pastureland with stock cattle	10080	В
9001212	pastureland	10080	В
9001246	pastureland	10080	В
9000581	milo field	10081	В
9000588	milo field	10081	В
9001589	pastureland	10087	В
9000533	dryland cropland	111	В
9000643	dryland wheat field	111	В
9000660	dryland wheat field	111	В
9000662	dryland wheat field	111	В
9001080	cropland	111	В
9001109	cropland	111	В
9000536	irrigated and dryland cropland	115	В
9000955	cropland	115	В
9000958	cropland	115	В

Source No.	Source Name	SIC ID	Zone
9001425	cropland	115	В
9001585	cropland	115	В
9001641	cropland	115	В
9000648	oil and gas wells	1381	В
9000654	oil and gas wells	1381	В
9001108	oil wells	1381	В
9001211	oil wells	1381	В
9001245	oil wells	1381	В
9001426	oil wells	1381	В
9001586	oil wells	1381	В
9001590	oil wells	1381	В
9000616		1521	В
9000617	rural residence	1521	В
9000618	rural residence	1521	В
9000619	rural residence	1521	В
9000620	rural residence	1521	В
9000621	rural residence	1521	В
9000622	rural residence	1521	В
9000623	rural residence	1521	В
9000624	rural residence	1521	В

Source No.	Source Name	SIC ID	Zone
9000625	rural residence	1521	В
9000626	rural residence	1521	В
9000628	rural residence	1521	В
9000629	rural residence	1521	В
9000630	rural residence	1521	В
9000631	rural residence	1521	В
9000632	rural residence	1521	В
9000633	rural residence	1521	В
9000634	rural residence	1521	В
9000635	wastewater treatment facility	1521	В
9000636	wastewater treatment facility	1521	В
9000587	Co-op- grain storage and ag. services	4221	В
9000647	underground gas oil pipelines	4600	В
9000535	golf course	7992	В
9000661	Irrigation equipment, pump site, and well	10012	С
9000651	Fuel, grain and feed and hay storage	10026	С
9000655	Fuel, grain, and feed and hay storage	10026	С
9000585	on-site wastewater facility	10067	С
9000656	on-site wastewater facility	10067	С
9000649	pastureland with stock cattle	10080	С

Source No.	Source Name	SIC ID	Zone
9000646	dryland wheat field	111	С
9000653	dryland wheat field	111	С
9001588	oil wells	1381	С
9000627	rural residence	1521	С
9000584	Natural Gas pipeline and crude petroleum pipelines	4600	С

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**Diversion Id's: **999**

Status: Accepted

Submit Date: 2003-01-31 08:50:02

Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 754

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Sedimentation	Pesticides	IOC's	SOC's	VOC's	$\mathbf{E} - \mathbf{P}$
72	70	20	227	88	126	70

A – Microbiolgical

B2 – Sedimentation

C* - Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

B1 – Eutrophication – Phosphorous

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**Diversion Id's: **999**

Status: Accepted

Submit Date: 2003-01-31 08:50:02

Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3728	Aircraft Equipment Manufacturing	inorganics, VOCs	В
"	"	"	D
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	"	D
2086	Bottled and Canned Soft Drinks Production	BOD	A
7542	Car Wash	Inorganics, VOCs	В
"	"	"	B1
"	"	"	B2
"	"	"	D
211	Cattle Farm	Sanitary, Fertilizers TSS, pesticides, Erosion and sedimentation	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
4939	Combination Utility Services, nec	Inorganics, VOCs	В
"	"	"	D

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
1381	Drilling Oil and Gas Wells	Oil, Salt Water	В
"	"	"	С
5541	Gasoline Service Station	Inorganics, VOCs	В
"	"	"	D
7992	Golf Course	Fertilizers and pesticides	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
1611	Highway and Street Construction	Sedimentation	B2
4212	Local Trucking, without Storage	VOCs	D
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	В
"	"	"	D
3999	Manufacturing Industries, nec	inorganics, VOCs	В
"	"	"	D
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	A
"	"	"	B*
6515	Mobile Home Park	Sanitary wastes, Fertilizers	A
"	"	"	В

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
6515	Mobile Home Park	Sanitary wastes, Fertilizers	B1
"	"	"	B*
2873	Nitrogen Fertilizer Manufacturing	nitrogen	В
"	"	"	B*
1542	Nonresidential Construction	Sedimentation	B2
1389	Oil and Gas Field services	Oil, Salt Water	В
"	"	"	С
2911	Petroleum Refining	inorganics, VOCs	В
"	"	"	D
7384	Photofinishing Laboratory	NA	В
"	"	"	D
2452	Prefabricated Wood Buildings Manufacturing	TSS	В
"	"	"	D
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	A
"	"	"	В
"	"	"	B1
"	"	"	B*
"	"	"	C*
5093	Scrap and Waste Materials	Metals, TSS	В

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3444	Sheet Metal Work Manufacturing	Metals and TSS, VOCs and metal etch	В
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	В
"	"	"	D
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	II .	С
3559	Special Industries Machinery Manufacturing	inorganics, VOCs	В
"	п	п	D
3691	Storage Batteries Manufacturing	Inorganics, caustics, VOCs	В
"	п	II .	D
2439	Structural Wood members Manufacturing	TSS, VOCs	В
"	п	II .	D
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	В
"	"	"	D
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	В
"	"	"	D
3792	Travel trailers and Campers Manufacturing	inorganics, VOCs	В

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3792	Travel trailers and Campers Manufacturing	inorganics, VOCs	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	В
2434	Wood Kitchen Cabinets Manufacturing	TSS, VOCs	В
"	"	"	D
752	Animal Specialty Services	Sanitary, fertilizers	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	11	B*
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	п	"	D
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
241	Dairy Farms	Sanitary, fertilizers	A
"	"	"	В
"	"	"	B1

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
241	Dairy Farms	Sanitary, fertilizers	B2
"	"	"	B*
3523	Farm Machinery and Equipment	inorganics	В
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	В
"	"	"	D
5083	Farm and Garden Machinery	inorganics	В
191	General Farm, Primarily Crop	fertilizers, Pesticides	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	A
"	"	"	В
"	"	"	B1
"	"	"	B2

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	B*
"	"	"	C*
7948	Racing, Including Track Operation		NA
5012	Recreational vehicle sales and repair	Inorganics	В
5561	Recreational vehicle sales and repair	Inorganics	В
4953	Refuse Systems	ALL	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	С
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	В

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**Diversion Id's: **999**

Status: Accepted

Submit Date: 2003-01-31 08:50:02

Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority	
3728	Aircraft Equipment Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 464 and State or federal Storm water pollution prevention regulations	
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and	
2086	Bottled and Canned Soft Drinks Production	BOD	Wastewater pretreatment and/or discharge to a POTW.	40 CFR 407 and State or federal Storm water pollution prevention regulations	
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442	
211	Cattle Farm	Sanitary, Fertilizers TSS, pesticides, Erosion and sedimentation	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals. Maintain riparian areas along waterways and keep cattle out of these areas. Proper Waste Management and Grazing Management.	KDHE– Livestock Waste Management Section, KAR 28–16, KDA, County Soil Conservation District, NRCS	
4939	Combination Utility Services, nec	Inorganics, VOCs	Maintain secondary containment for fuel storage and fueling areas. Maintain and inspect. Effect repairs promptly	NA	

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
1381	Drilling Oil and Gas Wells	Oil, Salt Water	Drill water retention and treatment	KAR 28–41, 45, 40 CFR 435
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA
7992	Golf Course	Fertilizers and pesticides	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals.	KDHE, KAR 28–16
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
4212	Local Trucking, without Storage	VOCs	Discharge to a POTW	State or federal Storm water pollution prevention regulations
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3999	Manufacturing Industries, nec	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	Wastewater pretreatment and/or discharge to a POTW	40CFR 432 and State or federal Storm water pollution prevention regulations
6515	Mobile Home Park	Sanitary wastes, Fertilizers		
2873	Nitrogen Fertilizer Manufacturing	nitrogen	Minimize contact of product with water. Contain and treat process wastewater	40 CFR 418 and State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
1389	Oil and Gas Field services	Oil, Salt Water	Proper management of production wastes	KAR 28–41, 45, 40 CFR 435

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2911	Petroleum Refining	inorganics, VOCs	Collect and pre-treat wastewater. Control storm water runoff. Minimize ground contamination with petroleum or other products	40 CFR 419 and State or federal Storm water pollution prevention regulations
7384	Photofinishing Laboratory	NA	Discharge to POTW. Recycle chemicals	CFR 40 459
2452	Prefabricated Wood Buildings Manufacturing	TSS	Discharge of process waters to POTW. Minimize outdoor storage.	State or federal Storm water pollution prevention regulations
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	Discharge to POTW. Minimize use of lawn chemicals	NA
5093	Scrap and Waste Materials	Metals, TSS	Minimize contact with storm water	State or federal Storm water pollution prevention regulations
3444	Sheet Metal Work Manufacturing	Metals and TSS, VOCs and metal etch	Minimize outdoor storage and control storm water runoff. Pre–treat process wastewater prior to discharge to POTW	40 CFR 464 and State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct		40 CFR 459 and State or federal Storm water pollution prevention regulations
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28–48, KDHE, KDEM
3559	Special Industries Machinery Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
3691	Storage Batteries Manufacturing	Inorganics, caustics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct. Minimize outdoor storage	40 CFR 461 and State or federal Storm water pollution prevention regulations
2439	Structural Wood members Manufacturing	TSS, VOCs	Discharge of process waters to POTW. Minimize outdoor storage.	State or federal Storm water pollution prevention regulations
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
3792	Travel trailers and Campers Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
2434	Wood Kitchen Cabinets Manufacturing	TSS, VOCs	Discharge of process waters to POTW. Minimize outdoor storage.	State or federal Storm water pollution prevention regulations
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
241	Dairy Farms	Collect and treat process wastes. Use good erosion control practices. Minimize storm water contact with contaminants.		40 CFR 405
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
191	General Farm, Primarily Crop	fertilizers, Pesticides	Maintain good erosion control practices and minimize the use of chemicals	NA

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority				
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations				
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	Maintain animal feeding areas and feed storage areas to minimize contact with storm water. Collect and treat process wastes.	40 CFR 412 and State or federal Storm water pollution prevention regulations				
7948	Racing, Including Track Operation	INA HISE OF IAWN CHEMICAIS LISE		NA				
5012	Recreational vehicle sales and repair	Inorganics Discharge to a POTW. Store oils and lubricants properly		Unorganics		norganics		NA
5561	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	Discharge to a POTW. Store oils and lubricants properly				
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water				

SI	С	SIC Source	Contaminant Water Quality Protection Source Measure		Regulatory Authority
769	99	Repair Services, Nec	inorganics	Discharge to POTW	NA

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**Diversion Id's: **999**

Status: Accepted

Submit Date: 2003-01-31 08:50:02

Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 754

Surface Water Single Well Analysis

A – Microbiolgical B – Inorganic Compounds B1 – Eutrophication – Phosphorous

 $B2-\hbox{Sedimentation}\ \ C-\hbox{Synthetic Organic Compounds}$

C* – Pesticides **D** – Volatile Organic Compounds

No.	Question	Response	A	В	B1	B2	C	C *	D
1	Is the intake located at a treatment plant?	No	1	1	0	0	1	1	1
2	Is there an open channel conveyance from the intake to the treatment plant?	No	0	0	0	0	0	0	0
3	Does a PWS own or control the conveyance right-of-way?	No	1	1	0	0	1	1	1
4	Does a PWS own or control the area within 1/4 mile of intake?	No	1	1	0	0	1	1	1
5	Is the area within 1/4 mile of the intake entirely native grass?	No	1	1	0	0	1	1	1
6	Is transportation infrastucture in close proximity to the intake?	No	0	0	0	0	0	0	0
7	Are there water quality protection plans for the transportation infrastucture?	Yes	0	0	0	0	0	0	0
8	Are any commercial, industrial, or urban areas present?	No	0	0	0	0	0	0	0
9	Does each industrial/commercial site and urban area have a water quality protection plan in place?	Yes	0	0	0	0	0	0	0
10	Is riparian area vegetated?	Yes	0	0	0	0	0	0	0
11	Has riparian area been farmed up to the stream/riverbank?	No	0	0	0	0	0	0	0
12	Is there a lack of native grass or trees?	No	0	0	0	0	0	1	0
13	Is livestock use present in riparian area?	Yes	1	0	0	0	0	1	0
14	Are any confined livestock production sites in riparian area?	Yes	1	0	0	0	0	1	0
15	Is each confinement area registered with KDHE?	Yes	0	0	0	0	0	0	0
16	Are any row crops (corn, milo, soybean) present?	Yes	0	0	0	0	0	1	0
17	Are water quality protection plans in use for each cropland?	No	0	0	0	0	0	1	1

No.	Question	Response	A	В	B1	В2	C	C *	D
18	Are any orchards present?	No	0	0	0	0	0	0	0
19	Are water quality protection plans in use for each orchard?	Yes	0	0	0	0	0	0	0
20	Is the intake a river intake?	Yes	1	1	0	1	1	1	1
21	Is the intake at a city-owned lake?	No	1	1	1	1	1	1	1
22	Is there water quality monitoring conducted at the river or lake?	Yes	0	0	0	0	0	0	0
23	Is TMDL needed for any of the rivers or lakes?	No	0	0	0	0	0	0	0
24	Are TMDL pollutants of concern reported by monitoring?	No	1	1	1	1	1	1	1
25	Are any point source discharges within 16 miles upstream of intake?	No	0	0	0	0	0	0	0
26	Is pretreatment required at any of the point sources?	No	0	0	0	0	0	0	0
27	Are all riparian buffers vegetated?	Yes	0	0	0	0	0	0	0
28	Are vegetated riparian buffer and a water quality protection plans in place?	No	1	1	1	1	0	1	0
29	Is there urbanized land within riparian buffer?	No	0	0	0	0	0	0	0
30	Is a NPDES stormwater permit required for the urbanized areas?	No	1	1	1	1	1	1	1
31	Are voluntary water quality protection plans in place for each urbanized area?	Yes	0	0	0	0	0	0	0
32	Is there industrial land use within riparian buffer?	No	0	0	0	0	0	0	0
33	Is NPDES stormwater permit required for industrial areas?	No	1	1	1	1	1	1	1
34	Are voluntary water quality protection plans in place for each industrial area?	Yes	0	0	0	0	0	0	0
35	Are there livestock present?	Yes	1	0	1	0	0	1	0
36	Is there livestock confinement present?	Yes	1	0	1	0	0	1	0
37	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0	0
38	Are any row crops (corn, milo, soybeans) present?	Yes	0	0	1	1	0	1	0
39	Are water quality protection plans in use for each row crop production?	No	0	0	1	1	0	1	0
40	Are any orchards present?	No	0	0	0	0	0	0	0
41	Are water quality protection plans in use for each orchard?	Yes	0	0	0	0	0	0	0
42	Is there any small grain (wheat, oats, barley) production?	Yes	0	0	1	1	0	1	0
43	Are water quality protection plans in use for each small grain production?	No	0	0	1	1	0	1	0
44	Are there unsewered developments (contentrations of lagoons or septic systems) present in Zone B?	Yes	1	1	0	0	0	0	0
45	Is a general watershed water quality protection plan in use?	No	1	1	1	1	1	1	1
46	Are any point source discharges within 16 miles upstream of intake?	No	1	1	1	0	1	0	1
47	Is pretreatment required at any of the point sources?	No	0	0	0	0	0	0	0

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**Diversion Id's: **999**

Status: Accepted

Submit Date: 2003-01-31 08:50:02

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 754

Comments for Unregulated Sites

Potential Contaminant Site No.	ntaminant Site Comments		
207639	TEST COMMENT FOR 207639	Derrick Beasley	
207908	Ithis is not there anymore	Mary ann befort	
207945	linis is not there anymore	Mary ann befort	

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Binder And Son Dairy	2001226	, , ,	Nicole Fisher
Dorzweiler Dairy	2000491	This cattle livestock facility has no water quality protection plans.	Nicole Fisher

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Fabrizius, Paul M.	2001126	This swine facility has no groundwater monitoring.	Nicole Fisher
Fort Hays State University Farm	2001823	This is a small dairy facility with no groundwater monitoring.	Nicole Fisher
Ksu Agricultural Research Ctr.	2002504	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
Pfannenstiel, A. J. – Site #1	2001268	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
Riedel, Don D.	2002231	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
Wakeeney Livestock Commission	2002569	This cattle livestock facility has no water quality protection plans.	Nicole Fisher

Comments for Regulated Hazardous Waste Sites

Did Not Rec	reive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
A A Coors	3000398		Nicole Fisher
Charlies Service	3000267	Heak in 1990. For more information contact Riss	Nicole Fisher

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Cooper Oil	3001002	The site is closed from an unleaded gasoline leak in 1988. No groundwater contamination was suspected.	Nicole Fisher
Dinges, Tom	3002543	The site is closed from a gasoline leak in 1992. The contamination was within .25 miles of PWS wells #18 and #10.	Nicole Fisher
Dons 66	3000548	Tank removed	Mary Howes
Eberle Oil Co	3000202	The site is currently being monitored from a gasoline and diesel leak in 1992. Monitoring wells were established and indicated contaminated.	Nicole Fisher
Haliburton	3001017	the site is currently being monitored from a xylene leak in 1989. There are 2 PWS wells and 4 domestic water wells within .25 miles downgradient of the leak.	Nicole Fisher
Home Oil Supply	3000146	The site is active from a gasoline leak in 1998. Low levels of VOC's are present in the groundwater.	Nicole Fisher
Jack's Repair	3002323	The site is closed from a 1989 gasoline leak; no wells are located within .25 miles downgradient of the leak. For more information contact Sharon Elder (785) 296–1030	Nicole Fisher
Johnnie's Service Repair	3000145	The site is closed from a gasoline leak in 1994. No groundwater contamination was suspected.	Nicole Fisher
Karst Well Drilling	3001140	The site is active from a gasoline leak in 1995. Groundwater pollution did occur.	Nicole Fisher
Mr Quick Mini Mart	3000600	The site is currently being monitored from a gasoline leak in 1992. There are 2 PWS wells and 3 domestic water wells within .25 miles downgradient of the leak.	Nicole Fisher
Quality Mart Inc.	3000203	The site is currently being monitored from a gasoline and diesel leak in 1994. Visual diesel contamination on the groundwater could be seen.	Nicole Fisher
Speedy Lube Oil	3001200	The site is closed; no leakage was detected.	Nicole Fisher
Sprint Mart/apco	3000431	The site is closed from a gasoline leak in 1990. No groundwater contamination was suspected.	Nicole Fisher

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Stuckeys Dq #192	3001822	The site is currently being monitored from a 1993 unleaded mid–grade leak. One public water well was within .25 miles downgradient of the leak. For more information contact Seth Kostbar (785) 296–0642	Nicole Fisher
Trego Co Shop, Wakeeney	3000350	The site is currently being monitored from a gasoline leak in 1990.	Nicole Fisher
Yuasa-exide	3001354	The site is closed from a diesel spill in 1990. No groundwater contamination was suspected.	Nicole Fisher

Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
ELLIS COUNTY LANDFILL	7000895	This site had groundwater contaminated with VOC's. For more information please contact Michael McNulty at (785) 296–1938	Nicole Fisher
KAW PIPELINE – DAMAR DREILING	7000012	The groundwater and soil are contaminated with crude oil from a pipeline leak. Remediation is ongoing. For information contact Bryan Bain (785) 296–5548	Nicole Fisher
MIDWEST ENERGY, INC.	7000896	The soil was contaminated with mercury and the contamination has been resolved.	Nicole Fisher
PERMIAN OIL	7000888	The soil and groundwater was contaminated with VOC's and observation wells were established in 1986.	Nicole Fisher
WEST 8TH STREET (HAYS WELLS – 20,27,28)	7000892	Soil, groundwater, PWS, and private wells were contaminated with VOC from an unknown source. For more information please contact Robert Jurgens (785) 291–3250	Nicole Fisher

Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Allied, Inc.	1 5000549	<i>y</i> 111	Nicole Fisher

Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
City of Hays	5000548	This industrial solid waste facility only accepts lime sludge.	Nicole Fisher
City of Hays	5000769	This solid waste facility is used for composting materials. No groundwater monitoring is required.	Nicole Fisher
Ellis County	5000067	This is a composting, transfer station, construction/demolition facility. No groundwater monitoring is required.	Nicole Fisher
Ellis County HHW Waste Program	5000725	This household hazardous waste facility accepts meth lab waste and no groundwater monitoring is required.	Nicole Fisher

Comments for Regulated Waste Water Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
ELLIS WWTF	6001704	This mechanical water treatment plant frequently discharges within effluent limitations and monitoring requirements.	Nicole Fisher
KDHE/BER (DRY CLEANING TRUST FUND) HAYS	6000891	This facility frequently discharges water with contaminants that are within the recommended levels.	Nicole Fisher
LIEBENTHAL MWTP	6001739	This facility uses non-discharging lagoons.	Nicole Fisher
OXFORD	6001085	This facility uses nondischarging lagoons.	Nicole Fisher
ROME CORPORATION / WESTERN WELL SERVICE	6000888	This facility uses non-discharging lagoons.	Nicole Fisher
USD #292 GRAINFIELD–WHEATLAND SCHOOL	6001713	This facility uses non-discharging lagoons.	Nicole Fisher

Comments for Regulated Waste Water Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
WAKEENEY MWTP	6001762	Idischarges water at acceptable levels into the Big	Nicole Fisher

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**Diversion Id's: **999**

Status: Accepted

Submit Date: 2003-01-31 08:50:02

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**

Added Contaminant Site Name	Site No.	Site Comments	Author
CRP	9000537	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Co-op- grain storage and ag. services	9000587	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain and feed and hay storage	9000539	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain and feed and hay storage	9000583	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain and feed and hay storage	9000586	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain and feed and hay storage	9000651	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain and feed and hay storage	9000657	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
Fuel, grain and feed and hay storage	9001210	This site could contaminate the public water supply.	Nicole Fisher
Fuel, grain and feed and hay storage	9001247	This site could contaminate the public water supply.	Nicole Fisher
Fuel, grain and feed and hay storage	9001587	This site could contaminate the public water supply.	Nicole Fisher

Added Contaminant Site Name	Site No.	Site Comments	Author
Fuel, grain, and feed and hay storage	9000655	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain, and feed and hay storage	9000957	This site could contaminate the public water supply.	Nicole Fisher
Fuel, grain, and feed and hay storage	9001079	This site could contaminate the public water supply.	Nicole Fisher
Irrigation equipment, pump site, and well	9000538	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Irrigation equipment, pump site, and well	9000661	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
Natural Gas pipeline and crude petroleum pipelines	9000584	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
above and below ground storage tanks	9000645	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
chemical Storage company	9000637	Noxious Weed Chemical Storage	Dale Wing
chemical Storage company	9000637	Noxious Weed Chemical Storage	Dale Wing
chemical Storage company	9000637	Ellis C. Noxious Weed Chemical Storage	Dale Wing
chemical Storage company	9000637	Noxious Weed Chemical Storage	Dale Wing
cropland	9000955	This site could contaminate the public water supply.	Nicole Fisher

Added Contaminant Site Name	Site No.	Site Comments	Author
cropland	9000958	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001080	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001109	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001425	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001585	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001641	This site could contaminate the public water supply.	Nicole Fisher
dryland cropland	9000533	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
dryland wheat field	9000643	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
dryland wheat field	9000646	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
dryland wheat field	9000653	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
dryland wheat field	9000660	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
dryland wheat field	9000662	This information was obtained from the Wellhead Protection Plan.	Gary Saunders

Added Contaminant Site Name	Site No.	Site Comments	Author
football field	9000650	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
golf course	9000535	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
irrigated and dryland cropland	9000536	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
milo field	9000581	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
milo field	9000588	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
non-discharging lagoons	9001640	This site could contaminate the public water supply.	Nicole Fisher
oil and gas wells	9000648	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
oil and gas wells	9000654	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
oil wells	9001108	This site could contaminate the public water supply.	Nicole Fisher
oil wells	9001211	This site could contaminate the public water supply.	Nicole Fisher
oil wells	9001245	This site could contaminate the public water supply.	Nicole Fisher
oil wells	9001426	This site could contaminate the public water supply.	Nicole Fisher

Added Contaminant Site Name	Site No.	Site Comments	Author
oil wells	9001586	This site could contaminate the public water supply.	Nicole Fisher
oil wells	9001588	This site could contaminate the public water supply.	Nicole Fisher
oil wells	9001590	This site could contaminate the public water supply.	Nicole Fisher
on-site wastewater facility	9000585	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
on-site wastewater facility	9000589	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
on-site wastewater facility	9000642	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
on-site wastewater facility	9000656	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
on-site wastewater facility	9000658	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
on-site wastewater facility	9000664	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
pastureland	9001212	This site could contaminate the public water supply.	Nicole Fisher
pastureland	9001246	This site could contaminate the public water supply.	Nicole Fisher
pastureland	9001589	This site could contaminate the public water supply.	Nicole Fisher

Added Contaminant Site Name	Site No.	Site Comments	Author
pastureland with cattle	9000534	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
pastureland with cattle	9000582	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
pastureland with stock cattle	9000644	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
pastureland with stock cattle	9000649	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
pastureland with stock cattle	9000659	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
pastureland with stock cattle	9000663	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
pastureland with stock cattle and CRP	9000652	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
rural residence	9000617	on-site wastewater	Dale Wing
rural residence	9000618	on-site wastewater	Dale Wing
rural residence	9000619	on-site wastewater	Dale Wing
rural residence	9000620	on-site wastewater	Dale Wing
rural residence	9000621	on-site wastewater	Dale Wing

Added Contaminant Site Name	Site No.	Site Comments	Author
rural residence	9000622	on-site wastewater	Dale Wing
rural residence	9000623	on-site wastewater	Dale Wing
rural residence	9000624	on-site wastewater	Dale Wing
rural residence	9000625	on-site wastewater	Dale Wing
rural residence	9000626	on-site wastewater	Dale Wing
rural residence	9000627	on-site wastewater	Dale Wing
rural residence	9000628	on-site wastewater	Dale Wing
rural residence	9000629	on-site wastewater	Dale Wing
rural residence	9000630	on-site wastewater	Dale Wing
rural residence	9000631	on-site wastewater	Dale Wing
rural residence	9000632	on-site wastewater	Dale Wing
rural residence	9000633	on-site wastewater	Dale Wing

Added Contaminant Site Name	Site No.	Site Comments	Author
rural residence	9000634	on-site wastewater	Dale Wing
sand pit	9000641	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
underground gas oil pipelines	9000647	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
wastewater treatment facility	9000635	on-site wastewater treatment	Dale Wing
wastewater treatment facility	9000636	on-site wastewater treatment	Dale Wing
Unknown	9000616	On–site wastewater system	Dale Wing

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**Diversion Id's: **999**

Status: Accepted

Submit Date: 2003-01-31 08:50:02

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **754**

Comments for Analysis Questions

Analysis Question	Question Comments	Author
	The PWS does control easments for the conveyance across private property.	Arlyn Unrein
Is the area within 1/4 mile of the intake entirely native grass?	Some wheat and alfalfa production	Arlyn Unrein

Public Water Supply: **RUSSELL, CITY OF**

Assessment Area: 755
Diversion Id's: 998

Status: Accepted

Submit Date: 2003-01-31 08:53:20

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755

Susceptibility Likelihood Scores for Assessment Area

	A	В	B1	B2	С	C*	D
Susceptibility Likelihood Score – SLS	52	49	63	67	52	51	54
SLS Range	Mid	Low	Mid	Mid	Mid	Low	Mid

A – Microbiolgical

B2 – Sedimentation

C* - Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

B1 – Eutrophication – Phosphorous

Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	Moderate Susceptibility
81–100	High Susceptibility

Public Water Supply: **RUSSELL**, **CITY OF**

Assessment Area: 755
Diversion Id's: 998

Status: Accepted

Submit Date: 2003-01-31 08:53:20

Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **755**

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
206464	Cattle Farm	211	В
212712	Cattle Farm	211	В
212710	Dairy Farms	241	В
206997	Veterinary Services, Specialties	742	В
207646	Veterinary Services, Specialties	742	В
207647	Veterinary Services, Specialties	742	В
207937	Veterinary Services, Specialties	742	В
207938	Veterinary Services, Specialties	742	В
207939	Veterinary Services, Specialties	742	В
207982	Veterinary Services, Specialties	742	В
206465	Animal Specialty Services	752	В
206916	Animal Specialty Services	752	В
206955	Animal Specialty Services	752	В
207684	Animal Specialty Services	752	В
207886	Animal Specialty Services	752	В
210235	Drilling Oil and Gas Wells	1381	В
206469	Oil and Gas Field services	1389	В
206470	Oil and Gas Field services	1389	В

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
206471	Oil and Gas Field services	1389	В
206472	Oil and Gas Field services	1389	В
206473	Oil and Gas Field services	1389	В
206474	Oil and Gas Field services	1389	В
206475	Oil and Gas Field services	1389	В
206897	Oil and Gas Field services	1389	В
207045	Oil and Gas Field services	1389	В
207256	Oil and Gas Field services	1389	В
207622	Oil and Gas Field services	1389	В
207639	Oil and Gas Field services	1389	В
207640	Oil and Gas Field services	1389	В
207841	Oil and Gas Field services	1389	В
207855	Oil and Gas Field services	1389	В
207910	Oil and Gas Field services	1389	В
207945	Oil and Gas Field services	1389	В
208199	Oil and Gas Field services	1389	В
208206	Oil and Gas Field services	1389	В
210259	Oil and Gas Field services	1389	В
210268	Oil and Gas Field services	1389	В
210274	Oil and Gas Field services	1389	В
206734	Single–family Housing Construction	1521	В
206881	Single–family Housing Construction	1521	В
207162	Single-family Housing Construction	1521	В

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
207232	Single–family Housing Construction	1521	В
207302	Single–family Housing Construction	1521	В
207671	Single–family Housing Construction	1521	В
207677	Single–family Housing Construction	1521	В
207877	Single–family Housing Construction	1521	В
208182	Single–family Housing Construction	1521	В
208197	Single–family Housing Construction	1521	В
208231	Single–family Housing Construction	1521	В
210236	Single–family Housing Construction	1521	В
210261	Single–family Housing Construction	1521	В
210275	Single–family Housing Construction	1521	В
210292	Single–family Housing Construction	1521	В
207583	Nonresidential Construction	1542	В
207678	Nonresidential Construction	1542	В
206476	Highway and Street Construction	1611	В
206477	Highway and Street Construction	1611	В
207289	Highway and Street Construction	1611	В
210300	Meat Packing Plant Manufacturing	2011	В
207668	Prepared Feeds For Animals and Fowls	2048	В
210297	Bottled and Canned Soft Drinks Production	2086	В
207537	Wood Kitchen Cabinets Manufacturing	2434	В
206485	Structural Wood members Manufacturing	2439	В

Source No.	SIC Description	SIC ID	Zone
206486	Prefabricated Wood Buildings Manufacturing	2452	В
207736	Newspapers Publishing and Printing	2711	В
208171	Newspapers Publishing and Printing	2711	В
207731	Commercial Printing-Lithographic	2752	В
207164	Commercial Printing NEC	2759	В
207782	Commercial Printing NEC	2759	В
207792	Commercial Printing NEC	2759	В
207793	Commercial Printing NEC	2759	В
212695	Nitrogen Fertilizer Manufacturing	2873	В
207983	Petroleum Refining	2911	В
206850	Sheet Metal Work Manufacturing	3444	В
210271	Farm Machinery and Equipment	3523	В
207107	Special Industries Machinery Manufacturing	3559	В
206489	Machinery, Except Electrical Manufacturing	3599	В
207634	Aircraft Equipment Manufacturing	3728	В
207974	Aircraft Equipment Manufacturing	3728	В
208205	Surgical Appliances and Supplies Manufacturing	3842	В
206858	Signs and Advertising Display Manufacturing	3993	В

Source No.	SIC Description	SIC ID	Zone
206907	Manufacturing Industries, nec	3999	В
207263	Manufacturing Industries, nec	3999	В
206492	Local Trucking, without Storage	4212	В
210303	Local Trucking, without Storage	4212	В
210304	Local Trucking, without Storage	4212	В
212696	Local Trucking, without Storage	4212	В
207975	Farm Product Warehousing and Storage	4221	В
208146	Farm Product Warehousing and Storage	4221	В
208147	Farm Product Warehousing and Storage	4221	В
208161	Farm Product Warehousing and Storage	4221	В
209120	Farm Product Warehousing and Storage	4221	В
209121	Farm Product Warehousing and Storage	4221	В
209126	Farm Product Warehousing and Storage	4221	В
210238	Farm Product Warehousing and Storage	4221	В
212709	Farm Product Warehousing and Storage	4221	В
206498	Combination Utility Services, nec	4939	В
207046	Refuse Systems	4953	В
207047	Refuse Systems	4953	В
207959	Refuse Systems	4953	В
207298	Farm and Garden Machinery	5083	В
207857	Farm and Garden Machinery	5083	В
207913	Farm and Garden Machinery	5083	В
207919	Farm and Garden Machinery	5083	В

Source No.	SIC Description	SIC ID	Zone
207934	Farm and Garden Machinery	5083	В
212711	Scrap and Waste Materials	5093	В
206456	Gasoline Service Station	5541	В
206510	Gasoline Service Station	5541	В
206748	Gasoline Service Station	5541	В
206790	Gasoline Service Station	5541	В
207279	Gasoline Service Station	5541	В
207686	Gasoline Service Station	5541	В
207732	Gasoline Service Station	5541	В
208210	Gasoline Service Station	5541	В
212698	Gasoline Service Station	5541	В
207951	Recreational vehicle sales and repair	5561	В
207952	Recreational vehicle sales and repair	5561	В
206524	Mobile Home Park	6515	В
206525	Mobile Home Park	6515	В
207288	Mobile Home Park	6515	В
207503	Mobile Home Park	6515	В
207633	Mobile Home Park	6515	В
207157	Photofinishing Laboratory	7384	В
206687	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
206729	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В

Source No.	SIC Description	SIC ID	Zone
207332	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
207569	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
207590	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
207629	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
207643	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
207673	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
207842	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
207908	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
207929	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
208209	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
210262	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
206562	Auto Truck Repair Service	7538	В

Source No.	SIC Description	SIC ID	Zone
206709	Auto Truck Repair Service	7538	В
206710	Auto Truck Repair Service	7538	В
206730	Auto Truck Repair Service	7538	В
206825	Auto Truck Repair Service	7538	В
206975	Auto Truck Repair Service	7538	В
207253	Auto Truck Repair Service	7538	В
207262	Auto Truck Repair Service	7538	В
207562	Auto Truck Repair Service	7538	В
207591	Auto Truck Repair Service	7538	В
207611	Auto Truck Repair Service	7538	В
207648	Auto Truck Repair Service	7538	В
208154	Auto Truck Repair Service	7538	В
208244	Auto Truck Repair Service	7538	В
210256	Auto Truck Repair Service	7538	В
210263	Auto Truck Repair Service	7538	В
206844	Car Wash	7542	В
206847	Car Wash	7542	В
207333	Car Wash	7542	В
206594	Repair Services, Nec	7699	В
206835	Repair Services, Nec	7699	В
206909	Repair Services, Nec	7699	В
207058	Repair Services, Nec	7699	В
207063	Repair Services, Nec	7699	В

Source No.	SIC Description	SIC ID	Zone
207067	Repair Services, Nec	7699	В
207620	Repair Services, Nec	7699	В
207636	Repair Services, Nec	7699	В
207674	Repair Services, Nec	7699	В
207978	Repair Services, Nec	7699	В
209127	Repair Services, Nec	7699	В
210306	Repair Services, Nec	7699	В
207879	Golf Course	7992	В
207880	Golf Course	7992	В
208202	Golf Course	7992	В
211950	General Farm, Primarily Crop	191	С
211952	General Farm, Primarily Crop	191	С
211998	General Farm, Primarily Crop	191	С
211999	General Farm, Primarily Crop	191	С
208239	Cattle Farm	211	С
211955	Cattle Farm	211	С
211997	Cattle Farm	211	С
210504	Veterinary Services, Specialties	742	С
207142	Oil and Gas Field services	1389	С
207208	Oil and Gas Field services	1389	С
207379	Oil and Gas Field services	1389	С
207380	Oil and Gas Field services	1389	С
207845	Oil and Gas Field services	1389	С

Source No.	SIC Description	SIC ID	Zone
207861	Oil and Gas Field services	1389	С
207874	Oil and Gas Field services	1389	С
207900	Oil and Gas Field services	1389	С
207901	Oil and Gas Field services	1389	С
207935	Oil and Gas Field services	1389	С
207961	Oil and Gas Field services	1389	С
207980	Oil and Gas Field services	1389	С
207987	Oil and Gas Field services	1389	С
207988	Oil and Gas Field services	1389	С
208296	Oil and Gas Field services	1389	С
210294	Oil and Gas Field services	1389	С
210524	Oil and Gas Field services	1389	С
211905	Oil and Gas Field services	1389	С
206600	Single-family Housing Construction	1521	С
206621	Single-family Housing Construction	1521	С
206627	Single-family Housing Construction	1521	С
206645	Single-family Housing Construction	1521	С
207076	Single–family Housing Construction	1521	С
207115	Single-family Housing Construction	1521	С
207140	Single-family Housing Construction	1521	С
207207	Single-family Housing Construction	1521	С
207367	Single-family Housing Construction	1521	С
207431	Single–family Housing Construction	1521	С

Source No.	SIC Description	SIC ID	Zone
207505	Single-family Housing Construction	1521	С
207902	Single-family Housing Construction	1521	С
207903	Single-family Housing Construction	1521	С
207918	Single–family Housing Construction	1521	С
207963	Single–family Housing Construction	1521	С
210257	Single–family Housing Construction	1521	С
210322	Single–family Housing Construction	1521	С
210542	Single–family Housing Construction	1521	С
212792	Single–family Housing Construction	1521	С
207206	Nonresidential Construction	1542	С
210463	Nonresidential Construction	1542	С
207371	Highway and Street Construction	1611	С
210403	Newspapers Publishing and Printing	2711	С
210384	Commercial Printing NEC	2759	С
210324	Farm Machinery and Equipment	3523	С
211909	Farm Machinery and Equipment	3523	С
212778	Farm Machinery and Equipment	3523	С
210325	Special Industries Machinery Manufacturing	3559	С
207921	Machinery, Except Electrical Manufacturing	3599	С
210326	Machinery, Except Electrical Manufacturing	3599	С

Source No.	SIC Description	SIC ID	Zone
210327	Machinery, Except Electrical Manufacturing	3599	С
207883	Storage Batteries Manufacturing	3691	С
210471	Travel trailers and Campers Manufacturing	3792	С
206602	Signs and Advertising Display Manufacturing	3993	С
206672	Signs and Advertising Display Manufacturing	3993	С
207936	Signs and Advertising Display Manufacturing	3993	С
210281	Signs and Advertising Display Manufacturing	3993	С
206491	Local Trucking, without Storage	4212	С
205406	Farm Product Warehousing and Storage	4221	С
205407	Farm Product Warehousing and Storage	4221	С
208145	Farm Product Warehousing and Storage	4221	С
208300	Farm Product Warehousing and Storage	4221	С
210317	Farm Product Warehousing and Storage	4221	С
210501	Farm Product Warehousing and Storage	4221	С
211911	Farm Product Warehousing and Storage	4221	С
207885	Refuse Systems	4953	С
207917	Recreational vehicle sales and repair	5012	С

Source No.	SIC Description	SIC ID	Zone
205423	Farm and Garden Machinery	5083	С
207923	Farm and Garden Machinery	5083	С
210330	Farm and Garden Machinery	5083	С
210388	Farm and Garden Machinery	5083	С
211912	Farm and Garden Machinery	5083	С
212697	Farm and Garden Machinery	5083	С
212713	Farm and Garden Machinery	5083	С
207972	Scrap and Waste Materials	5093	С
205408	Gasoline Service Station	5541	С
206794	Gasoline Service Station	5541	С
206816	Gasoline Service Station	5541	С
207483	Gasoline Service Station	5541	С
207941	Gasoline Service Station	5541	С
210335	Gasoline Service Station	5541	С
210520	Gasoline Service Station	5541	С
207904	Mobile Home Park	6515	С
210319	Recreational Vehicle Parks and Campsites	7033	С
212775	Recreational Vehicle Parks and Campsites	7033	С
207911	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
210483	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С

Source No.	SIC Description	SIC ID	Zone
210498	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
211932	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
212774	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
207096	Auto Truck Repair Service	7538	С
207337	Auto Truck Repair Service	7538	С
207352	Auto Truck Repair Service	7538	С
207429	Auto Truck Repair Service	7538	С
207916	Auto Truck Repair Service	7538	С
210488	Auto Truck Repair Service	7538	С
210492	Auto Truck Repair Service	7538	С
210510	Auto Truck Repair Service	7538	С
211933	Auto Truck Repair Service	7538	С
211996	Auto Truck Repair Service	7538	С
207747	Car Wash	7542	С
207189	Repair Services, Nec	7699	С
210499	Repair Services, Nec	7699	С
210525	Racing, Including Track Operation	7948	С
210342	Golf Course	7992	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000194	Walter Dairy	A-SHEL-MA05	В

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000335	Wolf, Laban	A-SHGO-M001	В
2000349	Huser, Leon	A-SHEL-M004	В
2000397	Gross, Wilbert	A-SHEL-MA16	В
2000437	Spring Creek Farms	A-SHTR-S006	В
2001004	Flora Farms, Inc.	A-SHGO-MA03	В
2001126	Fabrizius, Paul M.	A-SHTR-S004	В
2001226	Binder And Son Dairy	A-SHEL-M005	В
2001720	Northglen Farms	A-SHEL-B004	В
2001753	Werth, Leland	A-SHTR-B003	В
2001823	Fort Hays State University Farm	A-SHEL-M001	В
2001846	Bemis, Taylor G.	A-SHEL-B006	В
2001928	Tuttle Farms	A-SHGO-B010	В
2002231	Riedel, Don D.	A-SHTR-B001	В
2002441	Mann Cattle Company, Inc.	A-SHGO-B016	В
2002504	Ksu Agricultural Research Ctr.	A-SHEL-B001	В
2002526	Triple J Ranch	A-SHGO-LA01	В
2002575	Helendale Ranch	A-SHGO-C011	В
2002848	Mike's Game Birds	A-SHEL-EA01	В
2000169	Jamison, Darin D.	A-SHGO-MA07	С
2000177	Meder, Tom	A-SHEL-MA18	С
2000248	Dorzweiler, F Marion	A-SHEL-MA15	С
2000312	Schwarzenberger, Frank	A-SHGO-MA04	С
2000368	King, Milton	A-SHEL-MA06	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000477	Kuppetz Dairy	A-SHTR-MA03	С
2000491	Dorzweiler Dairy	A-SHEL-MA19	С
2000608	Barnes, Gerald	A-SHNS-BA01	С
2000647	Zimmerman, Keith	A-SHEL-BA02	С
2000706	Augustine Dairy	A-SHTR-MA04	С
2000712	Easton, Charles	A-SHGO-MA05	С
2000753	Urban Barry	A-SHRH-B008	С
2000796	Schaus Dairy	A-SHTR-MA06	С
2000928	Thielenhaus Brothers	A-SHRH-B007	С
2000998	Wolf Dairy	A-SHGO-M004	С
2001053	Kinderknecht, Tom	A-SHGO-S009	С
2001237	Gillespie Trust, Delmar J.	A-SHGO-S010	С
2001261	North Farms	A-SHRH-BA02	С
2001268	Pfannenstiel, A. J. – Site #1	A-SHEL-BA03	С
2001271	Pfannenstiel, A. J. – Site #2	A-SHEL-BA04	С
2001277	Corner Clinic	A-SHRH-BA01	С
2001499	Jamison Herefords	A-SHGO-BA08	С
2001694	Windholz Bro's	A-SHTR-S002	С
2001754	Heier, David	A-SHGO-BA03	С
2001835	Ostmeyer Hog Farm	A-SHGO-S005	С
2001853	Irvin, John H.	A-SHNS-BA02	С
2001917	North Farms	A-SHEL-BA01	С
2002071	Kinderknecht, Tom	A-SHGO-BA12	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2002161	Wolf Dairy LLC	A-SHGO-B001	С
2002210	Reinecker Feedlot #2	A-SHGO-B020	С
2002296	Reinecker Feedlot	A-SHGO-B008	С
2002387	Grabbe Farms Feedlot	A-SHEL-B005	С
2002436	Bar M Farms	A–SHGO–B018	С
2002442	Grinnell Grain Company	A-SHGO-B002	С
2002447	Quinkan Land Cattle	A–SHGO–B021	С
2002569	Wakeeney Livestock Commission	A–SATR–BD01	С
2002860	Cedar Bluff Cattle Feeders	A-SHTR-C001	С
2002907	Hays Feeders, Llc	A-SHEL-C002	С

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000001	Schmidt General	00002	В
3000146	Home Oil Supply	01737	В
3000253	Midland Marketing	03076	В

Source No.	Source Name	ID/Permit No.	Zone
3000285	Frontier Quick Mart	03487	В
3000344	Allied Inc	04204	В
3000398	A A Coors	04941	В
3000415	Werth Tank Service	05077	В
3000440	Golden Belt Coop	05383	В
3000486	Usd 388, Bus Barn	05960	В
3000495	Usd 432, Victoria	06002	В
3000514	Hays Medical Center, Hadley Campus	06173	В
3000600	Mr Quick Mini Mart	06528	В
3000644	Love's #44	06728	В
3000709	Stop 2 Shop	07025	В
3000710	Asb Oil Inc	07026	В
3000823	Victoria, City Of,	08582	В
3000848	Hays, Parks Dept	08778	В
3000849	Hays, Service Dept	08779	В
3000950	Art's Apco	11481	В
3000974	Brown's Service Center	12215	В
3001017	Haliburton	13507	В
3001023	Kansas Mobile Glass	13868	В
3001025	Honas Water Service	13920	В
3001040	Fondable Motor Co	14399	В
3001090	James Lincoln Mercury Gmc	15968	В
3001093	Golden Ox Truck Stop	16028	В

Source No.	Source Name	ID/Permit No.	Zone
3001122	Leroy's Diamond Shamrock	17115	В
3001124	Kerr-mcgee #6295 ("al's")	17141	В
3001140	Karst Well Drilling	17679	В
3001143	Robben Oil	17857	В
3001200	Speedy Lube Oil	20216	В
3001203	Standish Ford, Inc.	20268	В
3001241	Weber's Service	22650	В
3001364	Fort Hays St Univ, Motor Pool	24183	В
3001391	Apco #641, Vine St	25028	В
3001423	Amoco #9533	25226	В
3001537	Mr Quick #2	25793	В
3001594	Ideal Trucking	26072	В
3001604	Johnson Co, Executive Airport	26115	В
3001680	Kmart #9067	26436	В
3001701	Texaco #54-107-026	26587	В
3001750	Kdot, Hays	26687	В
3001774	Hembree Well Service	26837	В
3001808	Army Reserve Center	27022	В
3001819	Ups, Hays	27053	В
3001835	Tmp-marian High School, Hays, 1701 Hall	27111	В
3001864	Fort Hays Exp. Station	27256	В
3001914	Kang	27458	В
3002098	Us Supply	28561	В

Source No.	Source Name	ID/Permit No.	Zone
3002124	Halliburton Serv	28713	В
3002271	Wal-mart, Hays	29420	В
3002334	Ted's Tavern	29715	В
3002401	Ellis Power Plant	40159	В
3002405	Midland Marketing Coop	40217	В
3002417	Janzen Oil – East Bulk	41536	В
3002426	Davis Mud	42358	В
3002432	Wes-kan Construction	42620	В
3002625	Hutchison Vending Co	80813	В
3002645	Hays Asphalt Construction Inc.	81166	В
3002649	Midway Cable Tv Co.	81178	В
3002665	Golden Plains Trucking	81218	В
3002745	Quality Cleaners	81409	В
3002748	Roth Electronics	81416	В
3002761	Wolf Memorial Co	81437	В
3002767	Fischer Pipe Testing	81446	В
3002770	Thompson Oil Co	81464	В
3002776	M D Inc	81479	В
3002786	Standard Station, Old	81501	В
3002799	Circle S Trailer Sales Inc	81553	В
3002876	Dowell Site, Former	81780	В
3000145	Johnnie's Service Repair	01733	С
3000202	Eberle Oil Co	02329	С

Source No.	Source Name	ID/Permit No.	Zone
3000203	Quality Mart Inc.	02332	С
3000204	Grahams 66	02374	С
3000227	Trapp Service	02752	С
3000229	Schreiners Inc, Ogallah	02757	С
3000267	Charlies Service	03228	С
3000350	Trego Co Shop, Wakeeney	04254	С
3000431	Sprint Mart/apco	05250	С
3000531	Hays Medical Center, St Anthony	06258	С
3000548	Dons 66	06341	С
3000601	Frontier Quick Mart	06529	С
3000606	Allied Asphalt Inc	06548	С
3000675	Coastal Mart #2501	06843	С
3000676	Coastal Mart #2502	06844	С
3000677	Coastal Mart #2504	06845	С
3000678	Coastal Mart #2506	06848	С
3000847	Hays Fire Dept	08777	С
3000850	Hays Airport	08780	С
3000885	Travel Shoppe #1	09016	С
3000993	Holiday 66 Food Plaza #2	12847	С
3001002	Cooper Oil	13025	С
3001091	James Motor C0	15972	С
3001144	Mikes Service	17888	С
3001255	Younger Oil Co	23054	С

Source No.	Source Name	ID/Permit No.	Zone
3001354	Yuasa-exide	24084	С
3001356	Ellis Co Hwy Dept	24089	С
3001420	Wakeeney Travel Plaza	25221	С
3001427	Amoco #9667	25232	С
3001490	J C Penney	25574	С
3001590	Air Midwest, Hays	26061	С
3001603	Gilmore Construction	26114	С
3001654	Riggs Tire Auto	26310	С
3001822	Stuckeys Dq #192	27069	С
3002015	Hays Fire Equipment	28100	С
3002169	Schlitter Service	28929	С
3002258	Apc0, Main St	29361	С
3002323	Jack's Repair	29665	С
3002340	Kingsley, Roger	29724	С
3002343	Thrift Distributors	29733	С
3002453	Weigel Oil Co	43151	С
3002543	Dinges, Tom	80314	С
3002580	Fdic Club	80419	С
3002581	Mardian Motor Co	80420	С
3002677	Rome, Ron Property	81261	С
3002789	Ellis Co Emergency Management	81507	С
3002805	Sun Cement, Former	81583	С
3002810	Art Station, The (former)	81589	С

Source No.	Source Name	ID/Permit No.	Zone
3002852	Stewart Well Service	81700	С
3002880	State Bank Of Downs, Downs	99999	С

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000012	KAW PIPELINE – DAMAR DREILING	C602671203	В
7000885	CROSS MANUFACTURING CO., INC.	C602600014	В
7000887	NORGE'S DRYCLEANERS	C602600034	В
7000888	PERMIAN OIL	C602600037	В
7000892	WEST 8TH STREET (HAYS WELLS – 20,27,28)	C602603011	В
7000893	WEST 8TH STREET (HAYS WELLS – 20,27,28)	C602603011	В
7000894	WEST 8TH STREET (HAYS WELLS – 20,27,28)	C602603011	В
7000896	MIDWEST ENERGY, INC.	C602603013	В
7000897	DOWELL-SCHLUMBERGER FACILITY (FORMER)	C602603014	В
7000899	GOLDEN BELT COOPERATIVE ASSN SITE	C602603057	В
7000900	CLARK'S WELL SITE	C602670625	В
7000901	AUTO HOUSE BODY SHOP DISPOSAL SITE	C602671101	В
7000014	KAW PIPELINE – HOGBACK	C602671205	С
7000884	DREILING, CECILIA	C602600011	С
7000886	ELLIS COUNTY FEEDERS	C602600019	С
7000890	SCHAEFER, CLARENCE	C602600106	С

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000895	ELLIS COUNTY LANDFILL	C602603012	С
7000898	WALKER AAF	C602603019	С
7000902	QUINTER COOP FIRE	C603200071	С
7000903	PARK PWS WELL #1	C603270142	С
7000943	DEGGS, BRAUN-CAROLL WYNN	C609800009	С
7000944	KOCH PIPE LINE CO., AL DREILING	C609800171	С

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000769	City of Hays	0747-S	В
5000051	Trego County	0105-S	С
5000067	Ellis County	0113-S	С
5000072	Gove County	0115-S	С
5000472	Ft. Hays State University	0455-S	С
5000548	City of Hays	0534-S	С
5000549	Allied, Inc.	0535-S	С
5000725	Ellis County HHW Waste Program	0704-S	С

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000049	MEADOW ACRES MOBILE HOME PARK	C-SH16-OO02	В

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000291	KDHE-SOUTH HAYS GROUNDWATER REMED.	I-SH16-PO06	В
6000888	ROME CORPORATION / WESTERN WELL SERVICE	I-SH16-NP03	В
6000890	J.C. PENNEY COMPANY-HAYS	I-SH16-PO08	В
6000891	KDHE/BER (DRY CLEANING TRUST FUND) HAYS	I-SH16-PO10	В
6001702	ELLIS MWTP	M-SH06-OO01	В
6001703	ELLIS MWTP	M-SH06-OO01	В
6001704	ELLIS WWTF	M-SH06-OO02	В
6001705	ELLIS WWTF	M-SH06-OO02	В
6001723	HAYS WWTF	M-SH16-OO02	В
6001724	HAYS WWTF	M-SH16-OO02	В
6001726	HAYS WWTF	M-SH16-OO02	В
6001728	HAYS WWTF	M-SH16-OO02	В
6001759	VICTORIA MWTP	M-SH37-OO01	В
6000270	MC CRACKEN MWTP	M-SH26-OO01	С
6000889	ELLIS CO. HIGHWAY DEPT.	I-SH16-NP04	С
6001085	OXFORD	M-AR68-NO01	С
6001709	GORHAM MWTP	M-SH10-NO01	С
6001713	USD #292 GRAINFIELD–WHEATLAND SCHOOL	M-SH12-NO02	С
6001714	KDOT. GOVE CO. REST AREA I–70	M-SH12-NR02	С
6001715	KDOT. GOVE CO. REST AREA I–70	M-SH12-NR02	С
6001716	GRINNELL MWTP	M-SH14-NO01	С
6001725	HAYS WWTF	M-SH16-OO02	С
6001727	HAYS WWTF	M-SH16-OO02	С

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6001729	HAYS WWTF	M-SH16-OO02	С
6001730	HAYS WWTF	M-SH16-OO02	С
6001731	HAYS WWTF	M-SH16-OO02	С
6001732	HAYS WWTF	M-SH16-OO02	С
6001739	LIEBENTHAL MWTP	M-SH20-NO01	С
6001746	MC CRACKEN	M-SH26-OO02	С
6001760	KDOT. TREGO CO. REST AREA	M-SH38-NR02	С
6001761	KDOT. TREGO CO. REST AREA	M-SH38-NR02	С
6001762	WAKEENEY MWTP	M-SH38-OO01	С
6001763	WAKEENEY MWTP	M-SH38-OO01	С
6001774	MUNJOR IMPROVEMENT DISTRICT	M-SH50-NO01	С
6002027	ENERSYS, INC.	P-SH16-OO01	С
6002028	A-1 PLANK SCAFFOLD MFG. INC.	P-SH16-OO02	С

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755
Diversion Id's: 998

Status: **Accepted**

Submit Date: 2003-01-31 08:53:20

Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **755**

Source No.	Source Name	SIC ID	Zone
9000537	CRP	0	В
9000637	chemical Storage company	0	В
9000538	Irrigation equipment, pump site, and well	10012	В
9000661	Irrigation equipment, pump site, and well	10012	В
9000539	Fuel, grain and feed and hay storage	10026	В
9000583	Fuel, grain and feed and hay storage	10026	В
9000586	Fuel, grain and feed and hay storage	10026	В
9000651	Fuel, grain and feed and hay storage	10026	В
9000657	Fuel, grain and feed and hay storage	10026	В
9000957	Fuel, grain, and feed and hay storage	10026	В
9001079	Fuel, grain, and feed and hay storage	10026	В
9001210	Fuel, grain and feed and hay storage	10026	В
9001247	Fuel, grain and feed and hay storage	10026	В
9001587	Fuel, grain and feed and hay storage	10026	В
9000585	on-site wastewater facility	10067	В
9000589	on-site wastewater facility	10067	В
9000642	on-site wastewater facility	10067	В
9000658	on-site wastewater facility	10067	В
9000664	on-site wastewater facility	10067	В
9000650	football field	10073	В

Source No.	Source Name	SIC ID	Zone
9001640	non-discharging lagoons	10075	В
9000641	sand pit	10079	В
9000534	pastureland with cattle	10080	В
9000582	pastureland with cattle	10080	В
9000644	pastureland with stock cattle	10080	В
9000649	pastureland with stock cattle	10080	В
9000652	pastureland with stock cattle and CRP	10080	В
9000659	pastureland with stock cattle	10080	В
9000663	pastureland with stock cattle	10080	В
9001212	pastureland	10080	В
9001246	pastureland	10080	В
9000581	milo field	10081	В
9000588	milo field	10081	В
9001589	pastureland	10087	В
9000533	dryland cropland	111	В
9000643	dryland wheat field	111	В
9000646	dryland wheat field	111	В
9000660	dryland wheat field	111	В
9000662	dryland wheat field	111	В
9001080	cropland	111	В

Source No.	Source Name	SIC ID	Zone
9001109	cropland	111	В
9000536	irrigated and dryland cropland	115	В
9000955	cropland	115	В
9000958	cropland	115	В
9001425	cropland	115	В
9001585	cropland	115	В
9001641	cropland	115	В
9000648	oil and gas wells	1381	В
9000654	oil and gas wells	1381	В
9001108	oil wells	1381	В
9001211	oil wells	1381	В
9001245	oil wells	1381	В
9001426	oil wells	1381	В
9001586	oil wells	1381	В
9001588	oil wells	1381	В
9001590	oil wells	1381	В
9000616		1521	В
9000617	rural residence	1521	В
9000618	rural residence	1521	В
9000619	rural residence	1521	В

Source No.	Source Name	SIC ID	Zone
9000620	rural residence	1521	В
9000621	rural residence	1521	В
9000622	rural residence	1521	В
9000623	rural residence	1521	В
9000624	rural residence	1521	В
9000625	rural residence	1521	В
9000626	rural residence	1521	В
9000628	rural residence	1521	В
9000629	rural residence	1521	В
9000630	rural residence	1521	В
9000631	rural residence	1521	В
9000632	rural residence	1521	В
9000633	rural residence	1521	В
9000634	rural residence	1521	В
9000635	wastewater treatment facility	1521	В
9000636	wastewater treatment facility	1521	В
9000587	Co-op- grain storage and ag. services	4221	В
9000584	Natural Gas pipeline and crude petroleum pipelines	4600	В
9000647	underground gas oil pipelines	4600	В
9000535	golf course	7992	В

Source No.	Source Name	SIC ID	Zone
9000645	above and below ground storage tanks	10026	С
9000655	Fuel, grain, and feed and hay storage	10026	С
9000656	on-site wastewater facility	10067	С
9000653	dryland wheat field	111	С
9000627	rural residence	1521	С

Public Water Supply: **RUSSELL**, **CITY OF**

Assessment Area: 755
Diversion Id's: 998

Status: Accepted

Submit Date: 2003-01-31 08:53:20

Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Sedimentation	Pesticides	IOC's	SOC's	VOC's	$\mathbf{E} - \mathbf{P}$
72	70	20	227	88	126	70

A – Microbiolgical

B2 – Sedimentation

C* - Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

B1 – Eutrophication – Phosphorous

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755
Diversion Id's: 998

Status: Accepted

Submit Date: 2003-01-31 08:53:20

Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **755**

Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3728	Aircraft Equipment Manufacturing	inorganics, VOCs	В
"	"	"	D
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	"	D
2086	Bottled and Canned Soft Drinks Production	BOD	A
7542	Car Wash	Inorganics, VOCs	В
"	"	"	B1
"	"	"	B2
"	"	"	D
211	Cattle Farm	Sanitary, Fertilizers TSS, pesticides, Erosion and sedimentation	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
4939	Combination Utility Services, nec	Inorganics, VOCs	В
"	"	"	D

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
1381	Drilling Oil and Gas Wells	Oil, Salt Water	В
"	"	"	С
5541	Gasoline Service Station	Inorganics, VOCs	В
"	"	"	D
7992	Golf Course	Fertilizers and pesticides	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
1611	Highway and Street Construction	Sedimentation	B2
4212	Local Trucking, without Storage	VOCs	D
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	В
"	"	"	D
3999	Manufacturing Industries, nec	inorganics, VOCs	В
"	"	"	D
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	A
"	"	"	B*
6515	Mobile Home Park	Sanitary wastes, Fertilizers	A
"	"	"	В

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
6515	Mobile Home Park	Sanitary wastes, Fertilizers	B1
"	"	"	B*
2873	Nitrogen Fertilizer Manufacturing	nitrogen	В
"	"	"	B*
1542	Nonresidential Construction	Sedimentation	B2
1389	Oil and Gas Field services	Oil, Salt Water	В
"	"	"	С
2911	Petroleum Refining	inorganics, VOCs	В
"	"	"	D
7384	Photofinishing Laboratory	NA	В
"	"	"	D
2452	Prefabricated Wood Buildings Manufacturing	TSS	В
"	"	"	D
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	A
"	"	"	В
"	"	"	B1
"	"	"	B*
"	"	"	C*
5093	Scrap and Waste Materials	Metals, TSS	В

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3444	Sheet Metal Work Manufacturing	Metals and TSS, VOCs and metal etch	В
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	В
"	"	"	D
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	ıı .	С
3559	Special Industries Machinery Manufacturing	inorganics, VOCs	В
"	"	"	D
3691	Storage Batteries Manufacturing	Inorganics, caustics, VOCs	В
"	"	"	D
2439	Structural Wood members Manufacturing	TSS, VOCs	В
"	n .	ıı .	D
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	В
"	"	"	D
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	В
"	"	"	D
3792	Travel trailers and Campers Manufacturing	inorganics, VOCs	В

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3792	Travel trailers and Campers Manufacturing	inorganics, VOCs	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	В
2434	Wood Kitchen Cabinets Manufacturing	TSS, VOCs	В
"	"	"	D
752	Animal Specialty Services	Sanitary, fertilizers	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	11	B*
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	п	"	D
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	В
"	"	11	С
"	"	"	D
241	Dairy Farms	Sanitary, fertilizers	A
"	"	"	В
"	"	"	B1

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
241	Dairy Farms	Sanitary, fertilizers	B2
"	"	"	B*
3523	Farm Machinery and Equipment	inorganics	В
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	В
"	"	"	D
5083	Farm and Garden Machinery	inorganics	В
191	General Farm, Primarily Crop	fertilizers, Pesticides	В
"	"	"	B1
"	"	"	B2
"	II .	"	B*
"	"	"	C*
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	В
"	u .	n n	С
"	"	"	D
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	A
"	"	"	В
"	"	"	B1
"	"	"	B2

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	B*
"	"	"	C*
7948	Racing, Including Track Operation		NA
5012	Recreational vehicle sales and repair	Inorganics	В
5561	Recreational vehicle sales and repair	Inorganics	В
4953	Refuse Systems	ALL	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	С
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	В

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755
Diversion Id's: 998

Status: **Accepted**

Submit Date: 2003-01-31 08:53:20

Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **755**

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3728	Aircraft Equipment Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 464 and State or federal Storm water pollution prevention regulations
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
2086	Bottled and Canned Soft Drinks Production	BOD	Wastewater pretreatment and/or discharge to a POTW.	40 CFR 407 and State or federal Storm water pollution prevention regulations
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
211	Cattle Farm	Sanitary, Fertilizers TSS, pesticides, Erosion and sedimentation	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals. Maintain riparian areas along waterways and keep cattle out of these areas. Proper Waste Management and Grazing Management.	KDHE– Livestock Waste Management Section, KAR 28–16, KDA, County Soil Conservation District, NRCS
4939	Combination Utility Services, nec	Inorganics, VOCs	Maintain secondary containment for fuel storage and fueling areas. Maintain and inspect. Effect repairs promptly	NA

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
1381	Drilling Oil and Gas Wells	Oil, Salt Water	Drill water retention and treatment	KAR 28–41, 45, 40 CFR 435
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA
7992	Golf Course	Fertilizers and pesticides	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals.	KDHE, KAR 28–16
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
4212	Local Trucking, without Storage	VOCs	Discharge to a POTW	State or federal Storm water pollution prevention regulations
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3999	Manufacturing Industries, nec	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	Wastewater pretreatment and/or discharge to a POTW	40CFR 432 and State or federal Storm water pollution prevention regulations
6515	Mobile Home Park	Sanitary wastes, Fertilizers	Discharge to POTW. Minimize use of lawn chemicals	KAR 28–5
2873	Nitrogen Fertilizer Manufacturing	nitrogen	Minimize contact of product with water. Contain and treat process wastewater	40 CFR 418 and State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
1389	Oil and Gas Field services	Oil, Salt Water	Proper management of production wastes	KAR 28–41, 45, 40 CFR 435

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2911	Petroleum Refining	inorganics, VOCs	Collect and pre-treat wastewater. Control storm water runoff. Minimize ground contamination with petroleum or other products	40 CFR 419 and State or federal Storm water pollution prevention regulations
7384	Photofinishing Laboratory	NA	Discharge to POTW. Recycle chemicals	CFR 40 459
2452	Prefabricated Wood Buildings Manufacturing	TSS	Discharge of process waters to POTW. Minimize outdoor storage.	State or federal Storm water pollution prevention regulations
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	Discharge to POTW. Minimize use of lawn chemicals	NA
5093	Scrap and Waste Materials	Metals, TSS	Minimize contact with storm water	State or federal Storm water pollution prevention regulations
3444	Sheet Metal Work Manufacturing	Metals and TSS, VOCs and metal etch	Minimize outdoor storage and control storm water runoff. Pre–treat process wastewater prior to discharge to POTW	40 CFR 464 and State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28–48, KDHE, KDEM
3559	Special Industries Machinery Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
3691	Storage Batteries Manufacturing	Inorganics, caustics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct. Minimize outdoor storage	40 CFR 461 and State or federal Storm water pollution prevention regulations
2439	Structural Wood members Manufacturing	TSS, VOCs	Discharge of process waters to POTW. Minimize outdoor storage.	State or federal Storm water pollution prevention regulations
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
3792	Travel trailers and Campers Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
2434	Wood Kitchen Cabinets Manufacturing	TSS, VOCs	Discharge of process waters to POTW. Minimize outdoor storage.	State or federal Storm water pollution prevention regulations
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
241	Dairy Farms	Sanitary, fertilizers	Collect and treat process wastes. Use good erosion control practices. Minimize storm water contact with contaminants.	40 CFR 405
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
191	General Farm, Primarily Crop	fertilizers, Pesticides	Maintain good erosion control practices and minimize the use of chemicals	NA

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	Maintain animal feeding areas and feed storage areas to minimize contact with storm water. Collect and treat process wastes.	40 CFR 412 and State or federal Storm water pollution prevention regulations
7948	Racing, Including Track Operation	NA	Discharge to POTW. Minimize use of lawn chemicals. Use good erosion control practices	NA
5012	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	NA
5561	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	Discharge to a POTW. Store oils and lubricants properly
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water

SI	С	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
769	99	Repair Services, Nec	inorganics	Discharge to POTW	NA

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755
Diversion Id's: 998

Status: Accepted

Submit Date: 2003-01-31 08:53:20

Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755

Surface Water Single Well Analysis

 ${\bf A}$ – Microbiolgical ${\bf B}$ – Inorganic Compounds

B1 – Eutrophication – Phosphorous

 $B2-\hbox{Sedimentation}\ \ C-\hbox{Synthetic Organic Compounds}$

C* – Pesticides **D** – Volatile Organic Compounds

No.	Question	Response	A	В	B1	B2	C	C *	D
1	Is the intake located at a treatment plant?	No	1	1	0	0	1	1	1
2	Is there an open channel conveyance from the intake to the treatment plant?	No	0	0	0	0	0	0	0
3	Does a PWS own or control the conveyance right-of-way?	No	1	1	0	0	1	1	1
4	Does a PWS own or control the area within 1/4 mile of intake?		1	1	0	0	1	1	1
5	Is the area within 1/4 mile of the intake entirely native grass?		1	1	0	0	1	1	1
6	Is transportation infrastucture in close proximity to the intake?			0	0	0	0	0	0
7	Are there water quality protection plans for the transportation infrastucture?	Yes	0	0	0	0	0	0	0
8	Are any commercial, industrial, or urban areas present?	No	0	0	0	0	0	0	0
9	Does each industrial/commercial site and urban area have a water quality protection plan in place?	Yes	0	0	0	0	0	0	0
10	Is riparian area vegetated?	Yes	0	0	0	0	0	0	0
11	Has riparian area been farmed up to the stream/riverbank?	No	0	0	0	0	0	0	0
12	Is there a lack of native grass or trees?	No	0	0	0	0	0	1	0
13	Is livestock use present in riparian area?	Yes	1	0	0	0	0	1	0
14	Are any confined livestock production sites in riparian area?	No	0	0	0	0	0	0	0
15	Is each confinement area registered with KDHE?	Yes	0	0	0	0	0	0	0
16	Are any row crops (corn, milo, soybean) present?	Yes	0	0	0	0	0	1	0
17	Are water quality protection plans in use for each cropland?	No	0	0	0	0	0	1	1

No.	Question	Response	A	В	B1	B2	C	C *	D
18	Are any orchards present?	No	0	0	0	0	0	0	0
19	Are water quality protection plans in use for each orchard?	Yes	0	0	0	0	0	0	0
20	Is the intake a river intake?	Yes	1	1	0	1	1	1	1
21	Is the intake at a city-owned lake?	No	1	1	1	1	1	1	1
22	Is there water quality monitoring conducted at the river or lake?	Yes	0	0	0	0	0	0	0
23	Is TMDL needed for any of the rivers or lakes?	No	0	0	0	0	0	0	0
24	Are TMDL pollutants of concern reported by monitoring?	No	1	1	1	1	1	1	1
25	Are any point source discharges within 16 miles upstream of intake?	Yes	1	1	1	1	1	0	1
26	Is pretreatment required at any of the point sources?	Yes	1	1	1	1	1	0	1
27	Are all riparian buffers vegetated?	Yes	0	0	0	0	0	0	0
28	Are vegetated riparian buffer and a water quality protection plans in place?	No	1	1	1	1	0	1	0
29	Is there urbanized land within riparian buffer?	No	0	0	0	0	0	0	0
30	Is a NPDES stormwater permit required for the urbanized areas?	No	1	1	1	1	1	1	1
31	Are voluntary water quality protection plans in place for each urbanized area?	Yes	0	0	0	0	0	0	0
32	Is there industrial land use within riparian buffer?	No	0	0	0	0	0	0	0
33	Is NPDES stormwater permit required for industrial areas?	No	1	1	1	1	1	1	1
34	Are voluntary water quality protection plans in place for each industrial area?	Yes	0	0	0	0	0	0	0
35	Are there livestock present?	Yes	1	0	1	0	0	1	0
36	Is there livestock confinement present?	Yes	1	0	1	0	0	1	0
37	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0	0
38	Are any row crops (corn, milo, soybeans) present?	Yes	0	0	1	1	0	1	0
39	Are water quality protection plans in use for each row crop production?	No	0	0	1	1	0	1	0
40	Are any orchards present?	No	0	0	0	0	0	0	0
41	Are water quality protection plans in use for each orchard?	Yes	0	0	0	0	0	0	0
42	Is there any small grain (wheat, oats, barley) production?	Yes	0	0	1	1	0	1	0
43	Are water quality protection plans in use for each small grain production?	No	0	0	1	1	0	1	0
44	Are there unsewered developments (contentrations of lagoons or septic systems) present in Zone B?	No	0	0	0	0	0	0	0
45	Is a general watershed water quality protection plan in use?	No	1	1	1	1	1	1	1
46	Are any point source discharges within 16 miles upstream of intake?	Yes	0	0	0	0	0	0	0
47	Is pretreatment required at any of the point sources?	Yes	1	1	1	1	1	0	1

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755
Diversion Id's: 998

Status: Accepted

Submit Date: 2003-01-31 08:53:20

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755

Comments for Unregulated Sites

Potential Contaminant Site No.	Site Comments	Author
207639	ITEST COMMENT FOR 207639	Derrick Beasley
207908	unis is not there anymore	Mary ann befort
207945	linis is not there anymore	Mary ann befort

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Binder And Son Dairy	2001226	, , ,	Nicole Fisher
Dorzweiler Dairy	2000491	This cattle livestock facility has no water quality protection plans.	Nicole Fisher

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Fabrizius, Paul M.	2001126	This swine facility has no groundwater monitoring.	Nicole Fisher
Fort Hays State University Farm	2001823	This is a small dairy facility with no groundwater monitoring.	Nicole Fisher
Ksu Agricultural Research Ctr.	2002504	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
Pfannenstiel, A. J. – Site #1	2001268	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
Riedel, Don D.	2002231	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
Wakeeney Livestock Commission	2002569	This cattle livestock facility has no water quality protection plans.	Nicole Fisher

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
A A Coors	3000398		Nicole Fisher
Charlies Service	3000267	Heak in 1990. For more information contact Riss	Nicole Fisher

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Cooper Oil	3001002	The site is closed from an unleaded gasoline leak in 1988. No groundwater contamination was suspected.	Nicole Fisher
Dinges, Tom	3002543	The site is closed from a gasoline leak in 1992. The contamination was within .25 miles of PWS wells #18 and #10.	Nicole Fisher
Dons 66	3000548	Tank removed	Mary Howes
Eberle Oil Co	3000202	The site is currently being monitored from a gasoline and diesel leak in 1992. Monitoring wells were established and indicated contaminated.	Nicole Fisher
Haliburton	3001017	the site is currently being monitored from a xylene leak in 1989. There are 2 PWS wells and 4 domestic water wells within .25 miles downgradient of the leak.	Nicole Fisher
Home Oil Supply	3000146	The site is active from a gasoline leak in 1998. Low levels of VOC's are present in the groundwater.	Nicole Fisher
Jack's Repair	3002323	The site is closed from a 1989 gasoline leak; no wells are located within .25 miles downgradient of the leak. For more information contact Sharon Elder (785) 296–1030	Nicole Fisher
Johnnie's Service Repair	3000145	The site is closed from a gasoline leak in 1994. No groundwater contamination was suspected.	Nicole Fisher
Karst Well Drilling	3001140	The site is active from a gasoline leak in 1995. Groundwater pollution did occur.	Nicole Fisher
Mr Quick Mini Mart	3000600	The site is currently being monitored from a gasoline leak in 1992. There are 2 PWS wells and 3 domestic water wells within .25 miles downgradient of the leak.	Nicole Fisher
Quality Mart Inc.	3000203	The site is currently being monitored from a gasoline and diesel leak in 1994. Visual diesel contamination on the groundwater could be seen.	Nicole Fisher
Speedy Lube Oil	3001200	The site is closed; no leakage was detected.	Nicole Fisher
Sprint Mart/apco	3000431	The site is closed from a gasoline leak in 1990. No groundwater contamination was suspected.	Nicole Fisher

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Stuckeys Dq #192	3001822	The site is currently being monitored from a 1993 unleaded mid–grade leak. One public water well was within .25 miles downgradient of the leak. For more information contact Seth Kostbar (785) 296–0642	Nicole Fisher
Trego Co Shop, Wakeeney	3000350	The site is currently being monitored from a gasoline leak in 1990.	Nicole Fisher
Yuasa-exide	3001354	The site is closed from a diesel spill in 1990. No groundwater contamination was suspected.	Nicole Fisher

Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
ELLIS COUNTY LANDFILL	7000895	This site had groundwater contaminated with VOC's. For more information please contact Michael McNulty at (785) 296–1938	Nicole Fisher
KAW PIPELINE – DAMAR DREILING	7000012	The groundwater and soil are contaminated with crude oil from a pipeline leak. Remediation is ongoing. For information contact Bryan Bain (785) 296–5548	Nicole Fisher
MIDWEST ENERGY, INC.	7000896	The soil was contaminated with mercury and the contamination has been resolved.	Nicole Fisher
PERMIAN OIL	7000888	The soil and groundwater was contaminated with VOC's and observation wells were established in 1986.	Nicole Fisher
WEST 8TH STREET (HAYS WELLS – 20,27,28)	7000892	Soil, groundwater, PWS, and private wells were contaminated with VOC from an unknown source. For more information please contact Robert Jurgens (785) 291–3250	Nicole Fisher

Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Allied, Inc.	1 701011749	J 11	Nicole Fisher

Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
City of Hays	5000548	This industrial solid waste facility only accepts lime sludge.	Nicole Fisher
City of Hays	5000769	This solid waste facility is used for composting materials. No groundwater monitoring is required.	Nicole Fisher
Ellis County	5000067	This is a composting, transfer station, construction/demolition facility. No groundwater monitoring is required.	Nicole Fisher
Ellis County HHW Waste Program	5000725	This household hazardous waste facility accepts meth lab waste and no groundwater monitoring is required.	Nicole Fisher

Comments for Regulated Waste Water Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
ELLIS WWTF	6001704	This mechanical water treatment plant frequently discharges within effluent limitations and monitoring requirements.	Nicole Fisher
KDHE/BER (DRY CLEANING TRUST FUND) HAYS	6000891	This facility frequently discharges water with contaminants that are within the recommended levels.	Nicole Fisher
LIEBENTHAL MWTP	6001739	This facility uses non-discharging lagoons.	Nicole Fisher
OXFORD	6001085	This facility uses nondischarging lagoons.	Nicole Fisher
ROME CORPORATION / WESTERN WELL SERVICE	6000888	This facility uses non-discharging lagoons.	Nicole Fisher
USD #292 GRAINFIELD-WHEATLAND SCHOOL	6001713	This facility uses non-discharging lagoons.	Nicole Fisher

Comments for Regulated Waste Water Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
WAKEENEY MWTP	6001762	Idischarges water at acceptable levels into the Rig	Nicole Fisher

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755
Diversion Id's: 998

Status: **Accepted**

Submit Date: 2003-01-31 08:53:20

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755

Added Contaminant Site Name	Site No.	Site Comments	Author
CRP	9000537	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Co-op- grain storage and ag. services	9000587	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain and feed and hay storage	9000539	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain and feed and hay storage	9000583	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain and feed and hay storage	9000586	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain and feed and hay storage	9000651	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain and feed and hay storage	9000657	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
Fuel, grain and feed and hay storage	9001210	This site could contaminate the public water supply.	Nicole Fisher
Fuel, grain and feed and hay storage	9001247	This site could contaminate the public water supply.	Nicole Fisher
Fuel, grain and feed and hay storage	9001587	This site could contaminate the public water supply.	Nicole Fisher

Added Contaminant Site Name	Site No.	Site Comments	Author
Fuel, grain, and feed and hay storage	9000655	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain, and feed and hay storage	9000957	This site could contaminate the public water supply.	Nicole Fisher
Fuel, grain, and feed and hay storage	9001079	This site could contaminate the public water supply.	Nicole Fisher
Irrigation equipment, pump site, and well	9000538	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Irrigation equipment, pump site, and well	9000661	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
Natural Gas pipeline and crude petroleum pipelines	9000584	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
above and below ground storage tanks	9000645	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
chemical Storage company	9000637	Noxious Weed Chemical Storage	Dale Wing
chemical Storage company	9000637	Noxious Weed Chemical Storage	Dale Wing
chemical Storage company	9000637	Ellis C. Noxious Weed Chemical Storage	Dale Wing
chemical Storage company	9000637	Noxious Weed Chemical Storage	Dale Wing
cropland	9000955	This site could contaminate the public water supply.	Nicole Fisher

Added Contaminant Site Name	Site No.	Site Comments	Author
cropland	9000958	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001080	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001109	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001425	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001585	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001641	This site could contaminate the public water supply.	Nicole Fisher
dryland cropland	9000533	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
dryland wheat field	9000643	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
dryland wheat field	9000646	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
dryland wheat field	9000653	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
dryland wheat field	9000660	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
dryland wheat field	9000662	This information was obtained from the Wellhead Protection Plan.	Gary Saunders

Added Contaminant Site Name	Site No.	Site Comments	Author
football field	9000650	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
golf course	9000535	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
irrigated and dryland cropland	9000536	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
milo field	9000581	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
milo field	9000588	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
non-discharging lagoons	9001640	This site could contaminate the public water supply.	Nicole Fisher
oil and gas wells	9000648	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
oil and gas wells	9000654	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
oil wells	9001108	This site could contaminate the public water supply.	Nicole Fisher
oil wells	9001211	This site could contaminate the public water supply.	Nicole Fisher
oil wells	9001245	This site could contaminate the public water supply.	Nicole Fisher
oil wells	9001426	This site could contaminate the public water supply.	Nicole Fisher

Added Contaminant Site Name	Site No.	Site Comments	Author
oil wells	9001586	This site could contaminate the public water supply.	Nicole Fisher
oil wells	9001588	This site could contaminate the public water supply.	Nicole Fisher
oil wells	9001590	This site could contaminate the public water supply.	Nicole Fisher
on-site wastewater facility	9000585	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
on-site wastewater facility	9000589	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
on-site wastewater facility	9000642	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
on-site wastewater facility	9000656	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
on-site wastewater facility	9000658	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
on-site wastewater facility	9000664	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
pastureland	9001212	This site could contaminate the public water supply.	Nicole Fisher
pastureland	9001246	This site could contaminate the public water supply.	Nicole Fisher
pastureland	9001589	This site could contaminate the public water supply.	Nicole Fisher

Added Contaminant Site Name	Site No.	Site Comments	Author
pastureland with cattle	9000534	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
pastureland with cattle	9000582	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
pastureland with stock cattle	9000644	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
pastureland with stock cattle	9000649	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
pastureland with stock cattle	9000659	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
pastureland with stock cattle	9000663	This information was obtained from the Wellhead Protection Plan.	Gary Saunders
pastureland with stock cattle and CRP	9000652	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
rural residence	9000617	on-site wastewater	Dale Wing
rural residence	9000618	on-site wastewater	Dale Wing
rural residence	9000619	on-site wastewater	Dale Wing
rural residence	9000620	on-site wastewater	Dale Wing
rural residence	9000621	on-site wastewater	Dale Wing

Added Contaminant Site Name	Site No.	Site Comments	Author
rural residence	9000622	on-site wastewater	Dale Wing
rural residence	9000623	on-site wastewater	Dale Wing
rural residence	9000624	on-site wastewater	Dale Wing
rural residence	9000625	on-site wastewater	Dale Wing
rural residence	9000626	on-site wastewater	Dale Wing
rural residence	9000627	on-site wastewater	Dale Wing
rural residence	9000628	on-site wastewater	Dale Wing
rural residence	9000629	on-site wastewater	Dale Wing
rural residence	9000630	on-site wastewater	Dale Wing
rural residence	9000631	on-site wastewater	Dale Wing
rural residence	9000632	on-site wastewater	Dale Wing
rural residence	9000633	on-site wastewater	Dale Wing

Added Contaminant Site Name	Site No.	Site Comments	Author
rural residence	9000634	on-site wastewater	Dale Wing
sand pit	9000641	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
underground gas oil pipelines	9000647	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
wastewater treatment facility	9000635	on-site wastewater treatment	Dale Wing
wastewater treatment facility	9000636	on-site wastewater treatment	Dale Wing
Unknown	9000616	On–site wastewater system	Dale Wing

Public Water Supply: RUSSELL, CITY OF

Assessment Area: 755
Diversion Id's: 998

Status: Accepted

Submit Date: 2003-01-31 08:53:20

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: RUSSELL, CITY OF

Assessment Area: **755**

Comments for Analysis Questions

Analysis Question	Question Comments	Author
Does a PWS own or control the	PWS controls easments on private	Gerald Penka
conveyance right-of-way?	property	Geraid Pelika